CDX-A35RF

SERVICE MANUAL

US Model
Canadian Model
E Model

Model Name Using Similar Mechanism	CDX-A55

The specifications of the RF section (remote commander and hideaway unit)of CDX-A35RF are the same as then of CDX-A15RF. So, please refer to CDX-A15RF service manual (9-955-885-11) for the in formations of the RF section.

使用時は添付資料も参照のこと
Refer to the additional documents.

COMPACT DISC CHANGER SYSTEM

SONY®

SPECIFICATIONS

CD changer

System Compact disc digital audio system

Laser diode properties
- Material: GaAlAs
- Wavelength: 780 nm
- Emission duration: Continuous
- Laser output power: Less than 44.6 μW*
- * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

Frequency response
- 5 – 20,000 Hz ±1 dB

Signal-to-noise ratio
- 92 dB

Wow and flutter
- Below measurable limit

Outputs Line output (for changer connector only)

Current drain
- 800 mA (CD playback)
- 800 mA (during disc loading or ejecting a disc)

Operating temperature
- –10°C to 55°C (14°F to 131°F)

Power requirement
- 12 V DC car battery (negative ground)

Dimensions Approx. 305 × 90 × 177 mm (w/h/d) ($12^{1}/_{8} \times 3^{5}/_{8} \times 7$ in.) not incl. projecting parts and controls

Mass Approx. 2.5 kg (5 lb. 8 oz.)

CD changer commander (Hideaway unit/Remote commander)

Transfer frequency
- 88.3 MHz, 88.7 MHz

Dimensions Remote commander: Approx. 48 × 80 × 16 mm (w/h/d) ($1^{15}/_{16} \times 3^{1}/_{4} \times 2^{1}/_{32}$ in.)
Hideaway unit: Approx. 70 × 27 × 110 mm(w/h/d) ($2^{7}/_{8} \times 1^{1}/_{8} \times 4^{3}/_{8}$ in.)

Mass Remote commander: Approx. 110 g (3.9 oz.)
Hideaway unit: Approx. 350 g (12.3 oz.)

Supplied accessories
- Mounting hardware (1 set)
- Connecting cable (1)

Design and specifications subject to change without notice.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

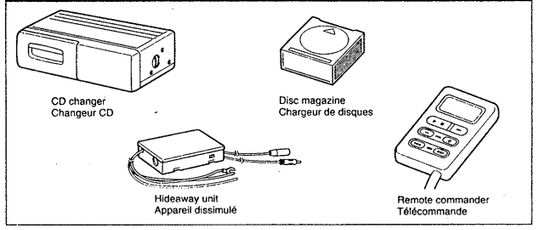
TABLE OF CONTENTS

Section	*Title*	*Page*
	Specifications	2
	Notes on Handling the Optical Pickup Block or Base Unit	2
1.	**GENERAL**	3
2.	**DISASSEMBLY**	5
3.	**ELECTRICAL ADJUSTMENTS**	
1.	Focus Offset Adjustment	9
2.	Tracking Offset Adjustment	9
3.	Tracking Gain Adjustment	10
4.	Focus Gain Adjustment	11
5.	PLL Freerun Frequency Check	11
4.	**DIAGRAMS**	
4-1.	Block Diagram	12
4-2.	Schematic Diagram	15
4-3.	Printed Wiring Boards	19
4-4.	IC501 (BA6247N) Motor Driver IC Operation	23
5.	**EXPLODED VIEWS**	25
6.	**ELECTRICAL PARTS LIST**	31

This section is extracted from instruction manual.

SECTION 1
GENERAL

Components — Composants



Features

This unit converts the audio signals from a CD changer into RF signals and you can receive them with your FM tuner (88.3 MHz or 88.7 MHz), so that you can enjoy disc play with your car audio/radio even if it has no input connector for a CD changer.

- Mobile CD changer automatically changes the discs in the disc magazine and enables you to play the desired selections of the 10 discs.
- With the remote commander, you can control the CD changer installed in a trunk room.
- The AMS* function allows you to select and play the desired selection easily.
- Compact and space-saving for vertical, horizontal or suspended installation.
- High quality sound obtained with the 8 fs digital filter.
- 1 bit D/A converter.

* Automatic Music Sensor

Caractéristiques

Cet appareil convertit les signaux audio d'un changeur CD en signaux de fréquences radio que votre tuner FM (88,3 MHz ou 88,7 MHz) peut recevoir. Vous pouvez ainsi écouter des disques compacts avec votre autoradio, même s'il n'est pas équipé d'un connecteur d'entrée pour changeur CD.

- Ce changeur CD déplaçable permet de changer automatiquement les disques du chargeur et d'écouter les plages souhaitées de 10 disques.
- Vous pouvez commander avec la télécommande le changeur installé dans le coffre.
- Grâce à la fontion AMS* vous pouvez choisir une plage qui sera immédiatement reproduite.
- Cet appareil compact et peu encombrant peut être installé ou suspendu à la verticale ou à l'horizontale.
- Le filtre numérique à 8 fois la fréquence d'échantillonnage garantit une grande qualité du son.
- Convertisseur N/A à 1 bit.

* Automatic Music Sensor (Détecteur automatique du début des plages)

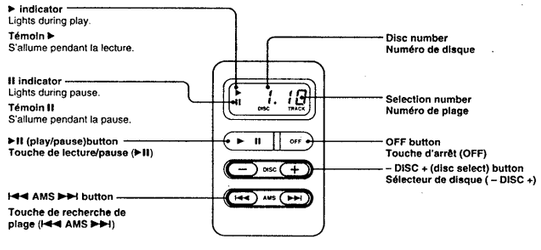
CAUTION
The use of optical instruments with this product will increase eye hazard.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

WARNING
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Location and Function of Controls
(Remote commander)



Precautions

- This unit is designed for negative ground 12 V DC operation only.
- Before operating the unit for the first time or after replacing the car battery, press the RESET button on the hideaway unit with a pencil or similar objects, then start operating the unit.
- If the error indicator flashes in the display window of the remote commander, see "Troubleshooting Guide".
- If no power is being supplied to the unit, check the connections first. If everything is in order, check the fuse.
- This unit converts the audio signals from a compact disc player into RF signals and you can receive them with your FM tuner (88.3 MHz or 88.7 MHz). This unit cannot be used if your car audio/radio has no FM tuner.
- As the laser beam used in this CD changer is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

Notes on installation
Avoid installing the unit in a place:
– subject to direct sunlight
– near heat sources (such as heaters)
– exposed to rain or moisture
– exposed to excessive dust or dirt
– subject to excessive vibration

Moisture condensation
On a rainy day or in a very damp area, moisture may condense on the lenses inside the unit. Should this occur, the unit will not operate. In this case, **remove the disc and wait for about an hour until the moisture evaporates.**

Précautions

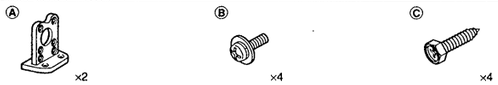
- Cet appareil doit fonctionner uniquement sur courant continu de 12 V avec masse négative.
- Si vous utilisez l'appareil pour la première fois ou après avoir remplacé la batterie de la voiture, appuyez sur la touche de réinitialisation RESET de l'appareil dissimulé, à l'aide d'un crayon ou d'un objet similaire, puis mettez en marche l'appareil.
- Si le témoin d'erreur clignote sur l'afficheur de la télécommande, reportez-vous au "Guide de dépannage".
- Si l'appareil n'est pas alimenté en électricité, vérifiez tout d'abord les branchements. S'ils sont corrects, vérifiez le fusible.
- Cet appareil convertit les signaux audio du lecteur de disque compact en signaux de fréquences radio que votre tuner FM (88,3 MHz ou 88,7 MHz) peut recevoir. Cet appareil ne peut toutefois pas être utilisé si votre autoradio n'est pas équipé de tuner FM.

Remarques sur l'installation
Evitez d'installer l'appareil dans un endroit exposé:
– au soleil
– à des sources de chaleur (comme le chauffage)
– à la pluie et à l'humidité
– à la poussière ou la saleté
– à des vibrations excessives

Condensation d'humidité
Les jours de pluie ou dans les régions très humides, de l'humidité risque de se condenser sur les lentilles à l'intérieur de l'appareil. Si le cas se présente, **enlevez le disque et laissez pendant environ une heure l'humidité s'évaporer.**

Installation

Supplied Mounting Hardware



The letters in the list are keyed to those in the instructions.

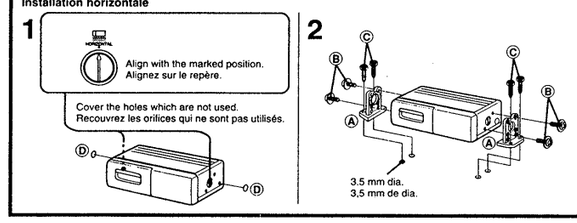
Before Installing

CD changer
- Choose the mounting location carefully, observing the followings:
  – The fuel tank should not be damaged by the tapping screws
  – There should be no wire harnesses nor pipelines under the place where you are going to install the unit
  – The spare tire, tools or other equipment in or under the trunk should not be interfered with nor damaged by the screws or the unit itself.
- Be sure to use only the supplied mounting hardware for a safe and secure installation.

Remote commander
Choose the mounting location carefully so that the unit will not:
– interfere with normal driving functions
– be exposed to direct sunlight or hot air from the heater

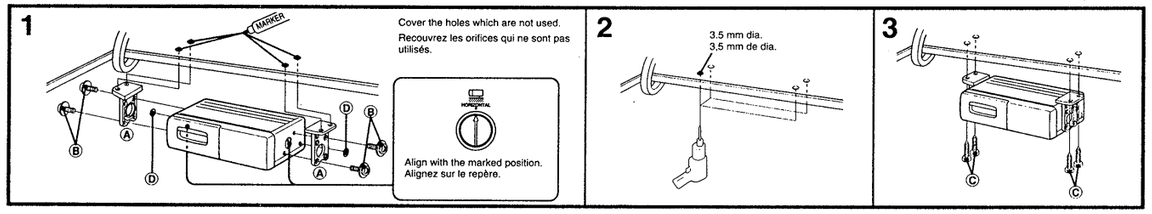
How to Install the Unit

Horizontal installation
Installation horizontale


1
Align with the marked position.
Alignez sur le repère.
Cover the holes which are not used.
Recouvrez les orifices qui ne sont pas utilisés.
2
3.5 mm dia.
3,5 mm de dia.

Suspended installation
When the unit is to be installed under the rear tray etc. in the trunk room, make sure that the following provisions are made.
- Choose the mounting location carefully so that the unit can be installed horizontally.
- Make sure that the unit does not hinder the movement of torsion bar spring etc. of the trunk lid.

Caution
Before making holes, make sure that there are not anything on the opposite side of the rear tray.



Installation

Matériel de montage fourni

Les lettres de la liste correspondent à celles des instructions.

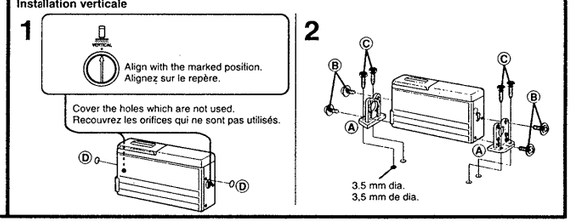
Préparatifs

Changeur CD
- Choisissez soigneusement l'emplacement où le changeur doit être installé en tenant compte des points suivants:
  – Le réservoir à essence ne doit pas être endommagé par les vis autotaradeuses.
  – Aucun faisceau de fils et aucune durit ne doit se trouvés à l'endroit où l'appareil doit être installé.
  – Les vis ou l'appareil ne doivent pas gêner ou endommager le pneu de rechange, la boîte à outils ou tout autre matériel se trouvant dans ou sous le coffre.
- Pour garantir une bonne installation, veillez à utiliser le matériel de montage fourni uniquement.

Télécommande
Choisissez soigneusement l'emplacement de la télécommande de sorte qu'elle:
– ne gêne pas les mouvements du conducteur;
– ne soit pas exposée au soleil ou à l'air chaud du chauffage.

Installation du changeur CD

Vertical installation
Installation verticale


1
Align with the marked position.
Alignez sur le repère.
Cover the holes which are not used.
Recouvrez les orifices qui ne sont pas utilisés.
2
3.5 mm dia.
3,5 mm de dia.

Suspension du changeur CD
Si le changeur doit être installé dans le coffre sous le plage arrière, prenez les précautions suivantes.
- Choisissez soigneusement l'emplacement pour que le changeur soit à l'horizontale.
- Vérifiez que le changeur ne gêne pas le ressort du capot, entre autres.

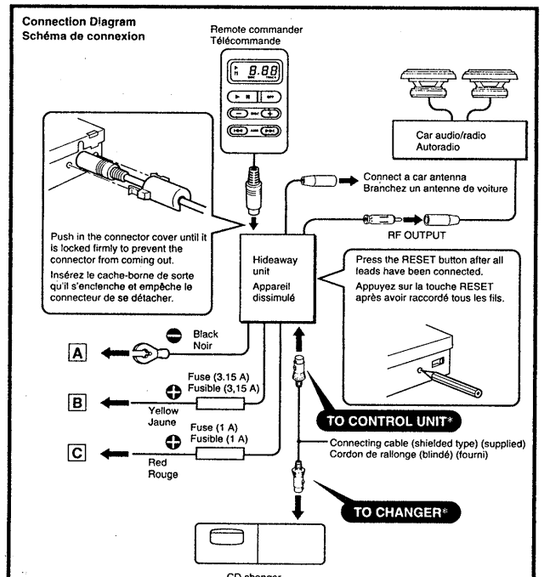
Précaution
Avant de percer des trous, vérifiez que rien ne se trouve sur la plage arrière de la voiture.

Connections — Connexion

Caution
- Before making connections, disconnect the ground wire terminal of the car battery to avoid short circuits.
- Connect the yellow and red power input leads only after all other leads have been connected.
- Be sure to connect the red power input lead to the positive 12 V power terminal which is energized when the ignition key is in the accessory position.
- Run all ground wires to a common ground point.

Avertissement
- Avant d'effectuer les connexions, débranchez la borne de masse de la batterie de la voiture pour éviter tout court-circuit.
- Branchez les fils d'entrée d'alimentation jaune et rouge seulement après avoir terminé tous les autres branchements.
- Veillez à ne pas raccorder le fil rouge d'entrée d'alimentation à la borne positive de 12 V qui est alimentée quand la clé de contact est sur la position accessoire.
- Rassemblez tous les fils de masse à une masse commune.

Connection Diagram
Schéma de connexion



- Connect the connecting cable according to the indications on either end of the cable.

A to a metal point of the car
B to the + 12 V power terminal which is energized at all times
C to the + 12 V power terminal which is energized in the accessory position of the ignition key
If the system is to be used in a car with no accessory position on the ignition key panel, connect this lead to B.

- Connecter le cordon de raccordement selon les indications inscrites sur une extrémité.

A vers un point métallique de la voiture
B vers la borne d'alimentation +12 V qui est alimentée en permanence
C vers la borne d'alimentation +12 V qui est alimentée quand la clé de contact est sur la position accessoire
Si vous utilisez le système dans une voiture sans position accessoire de la clé de contact, raccordez ce fil sur B.

Notes
Be sure to use the **supplied** connecting cable. Using a connecting cable other than supplied one may cause noise.

Remarques
Utilisez le cordon de rallonge **fourni.** Si vous utilisez un cordon différent des parasites risquent d'être audibles.

Fuse Replacement

If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after the replacement, there may be an internal malfunction. In this case, consult your nearest Sony dealer.

Warning
Use the specified amperage fuse for each lead. Use of a higher amperage fuse may cause serious damage.

Remplacement du fusible

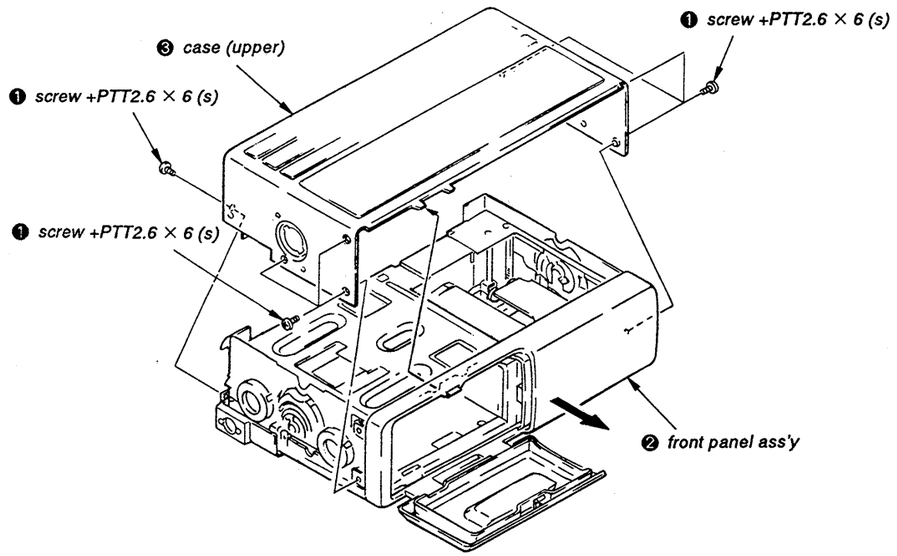
Si le fusible saute, vérifiez la connexion du cordon d'alimentation et remplacez le fusible. S'il saute de nouveau après avoir été remplacé, un mauvais fonctionnement interne peut en être la cause. Dans ce cas, consultez votre revendeur Sony.

Avertissement
Utilisez un fusible de l'ampérage spécifié pour chaque fil. L'utilisation d'un fusible d'ampérage plus élevé peut causer de sérieux dommages.

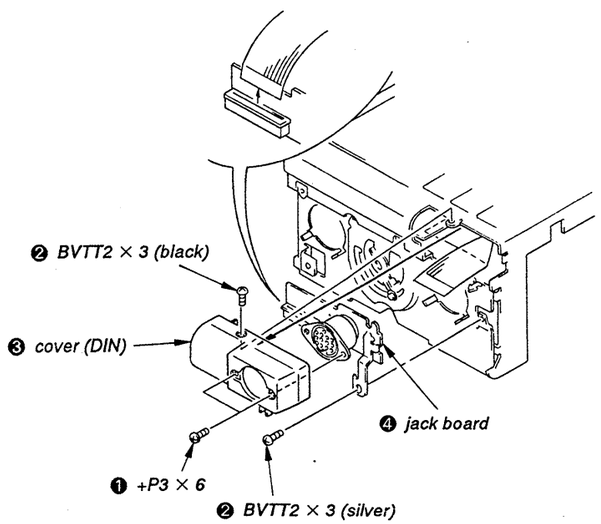
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

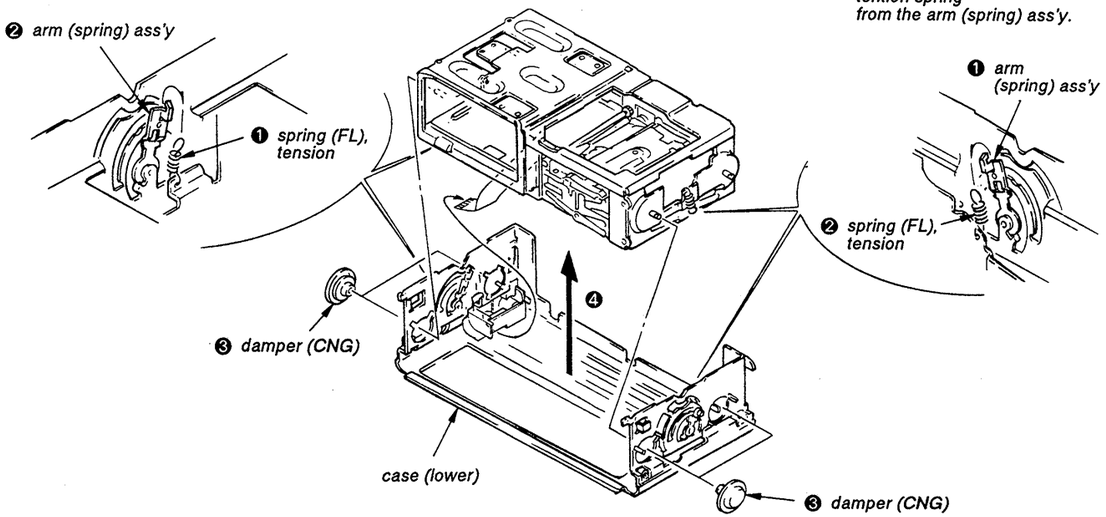
CASE (UPPER) AND FRONT PANEL ASS'Y



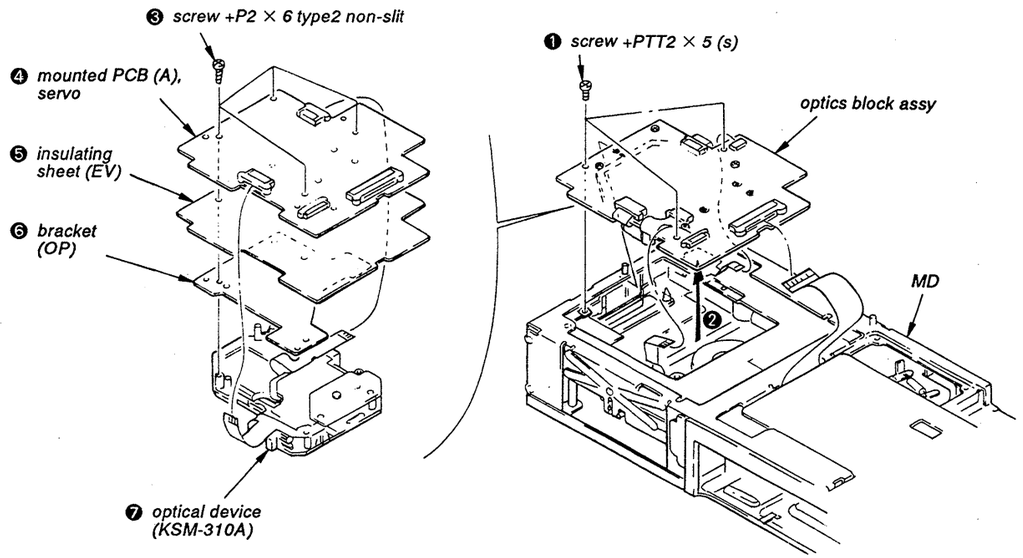
COVER (DIN)



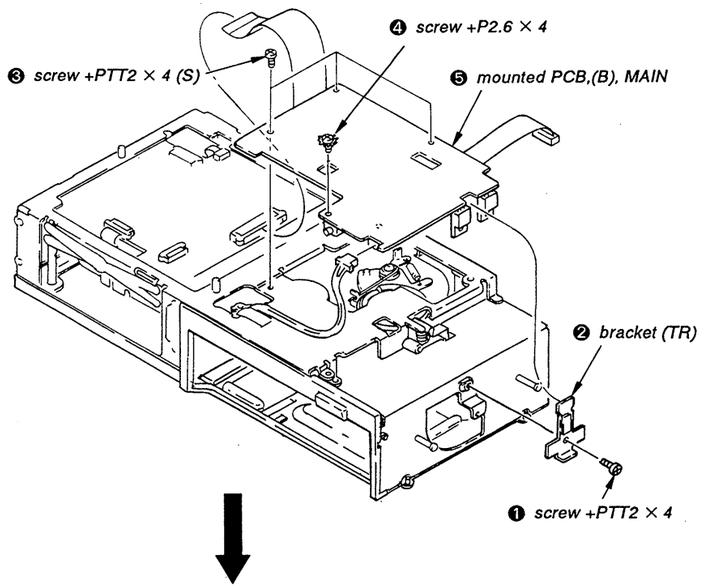
CASE (LOWER)



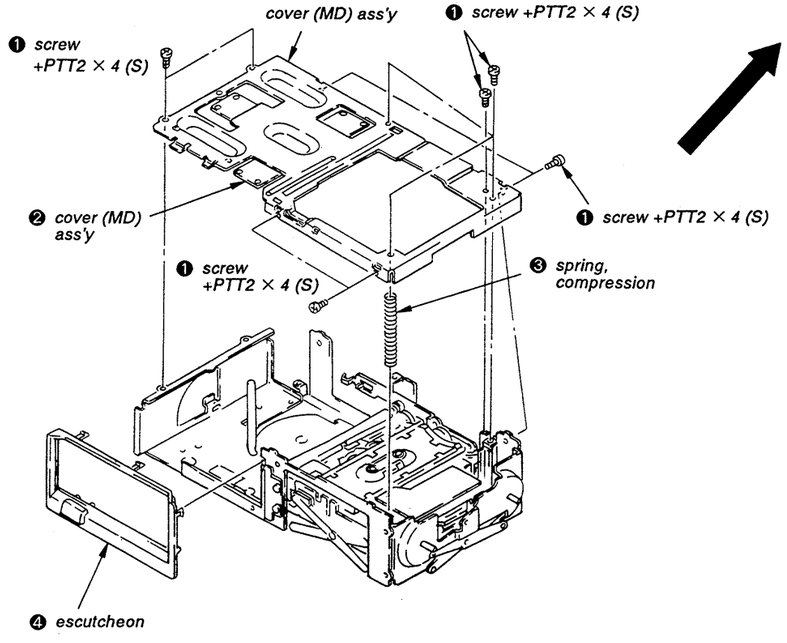
SERVO BOARD AND OPTICAL DEVICE (KSM-310A)



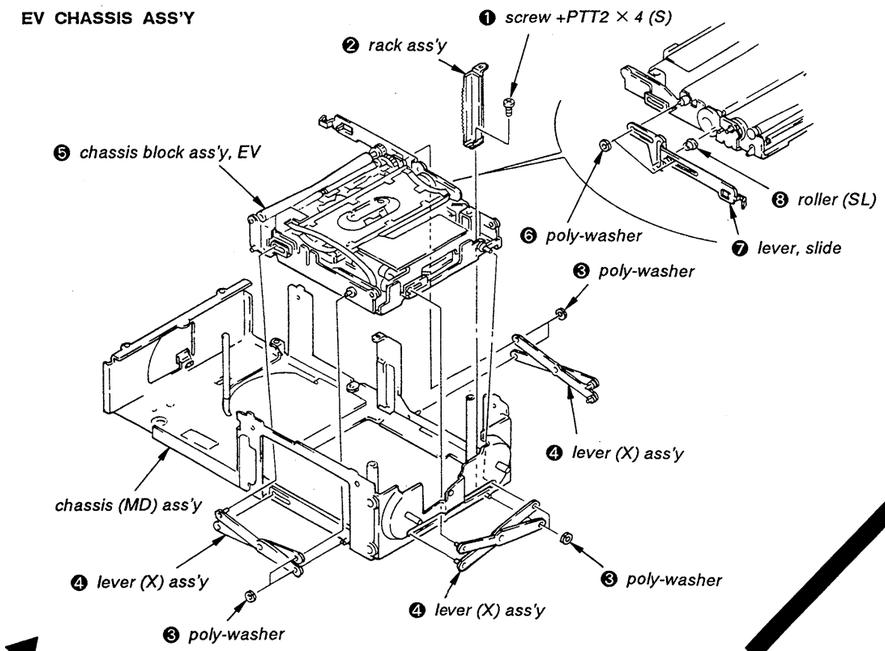
MAIN BOARD



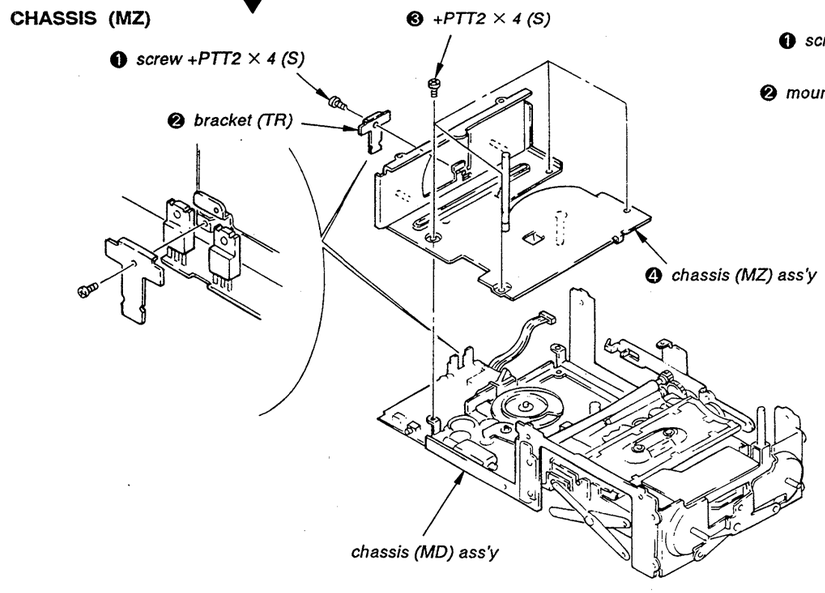
COVER (MD) ASS'Y AND ESCUTCHEON


cover (MD) ass'y
❶ screw +PTT2 × 4 (S)
❶ screw +PTT2 × 4 (S)
❷ cover (MD) ass'y
❶ screw +PTT2 × 4 (S)
❶ screw +PTT2 × 4 (S)
❸ spring, compression
❹ escutcheon

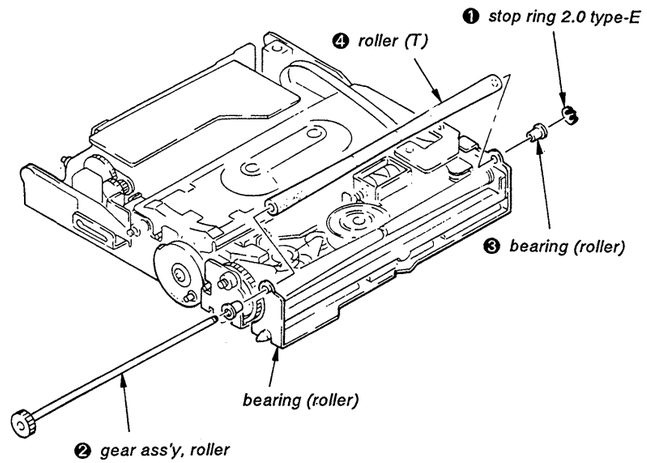
EV CHASSIS ASS'Y



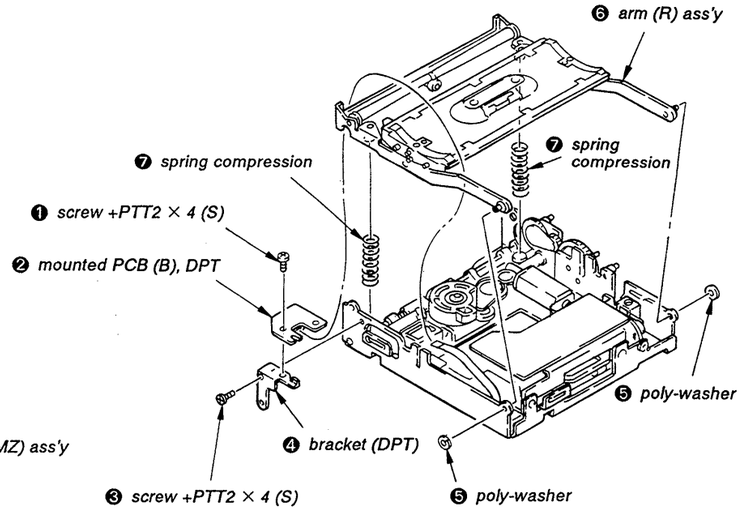
CHASSIS (MZ)



ROLLER (LOWER)



DPT BOARD AND ARM (R) ASS'Y

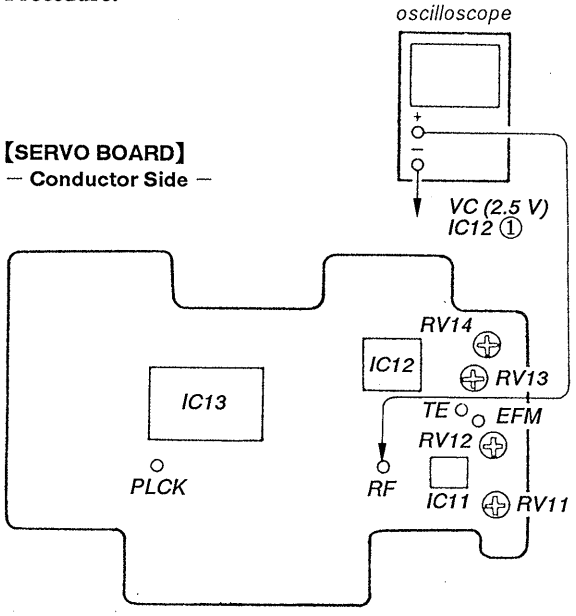


SECTION 3
ELECTRICAL ADJUSTMENTS

1. Perform adjustments as given.
2. Be sure to use the disc "YEDS-18" parts code: 3-702-101-01, but only when indicated.
3. Power supply voltage: DC14.4 V (more than 10A).

1. Focus Offset Adjustment

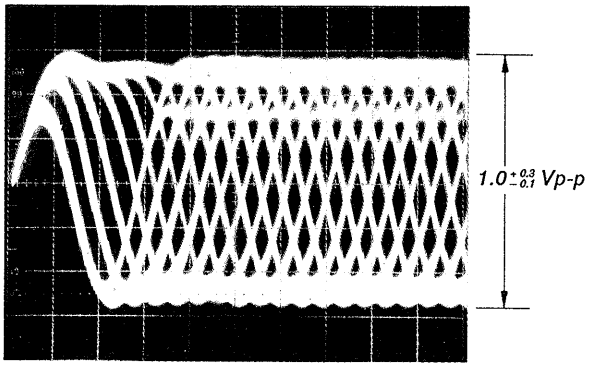
Procedure:



1. Connect the oscilloscope to SERVO board test point RF.
2. Put the set into play mode by loading the disc.
3. Adjust (SERVO board) RV12 so that the oscilloscope. Waveform eye pattern is good.

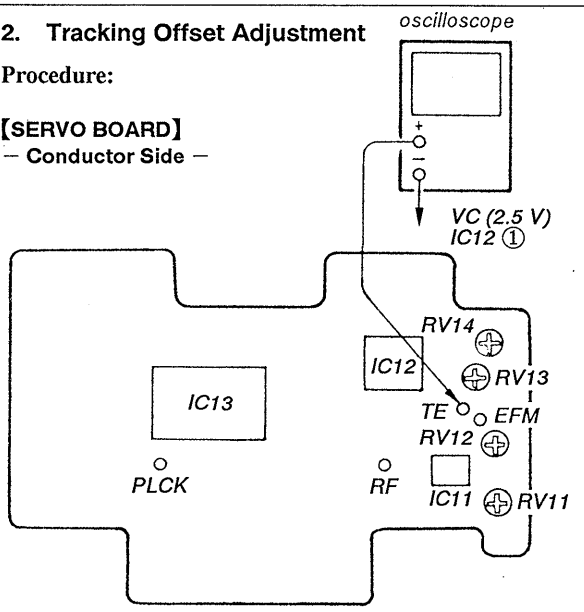
   (A good eye pattern means that the diamond shape (◇) in the center of the oscilloscope can be clearly distinguished.)

Volt/Div: 200 mV
Time/Div: 0.5 µSec



2. Tracking Offset Adjustment

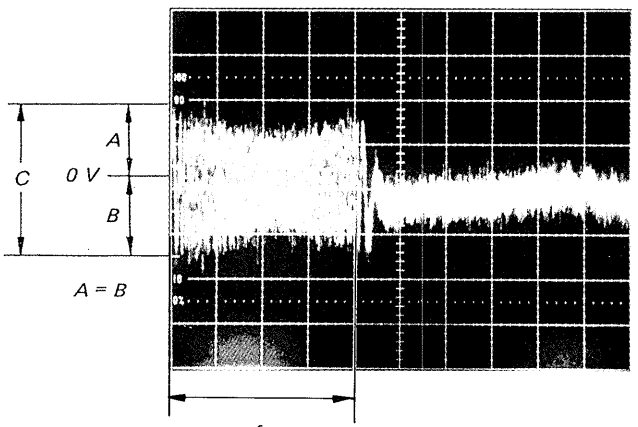
Procedure:



1. Connect the oscilloscope to SERVO board test point TE, pin ① of IC11.
2. Put the set into play mode by loading the disc.
3. Press the |◀◀ AMS ▶▶| button, then, check the traverse waveform*.
4. Adjust RV11 (SERVO board) so that oscilloscope reading is symmetrical in relation to 0 V.

   *Traverse waveform: This is the tracking error waveform appears when crossing the track.

Volt/Div: 0.5 V
Time Div: 2 mSec
Center 0 V



traverse waveform
(100 track jump waveform)

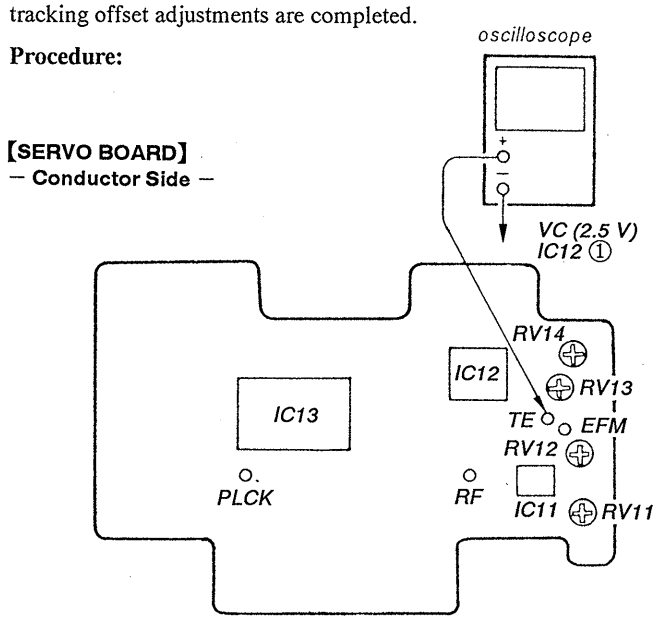
3. Tracking Gain Adjustment (coarse adjustment)

This adjustment is to be performed when replacing the following parts.

- Optical Pick-up Block
- RV13

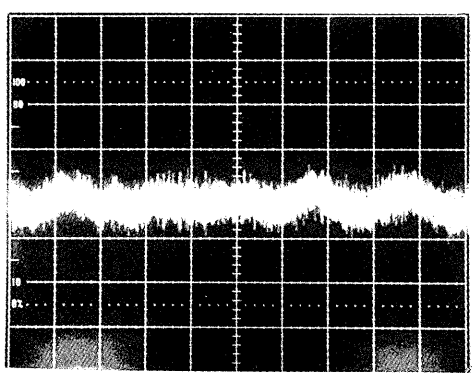
This adjustment should be performed after focus offset and tracking offset adjustments are completed.

Procedure:

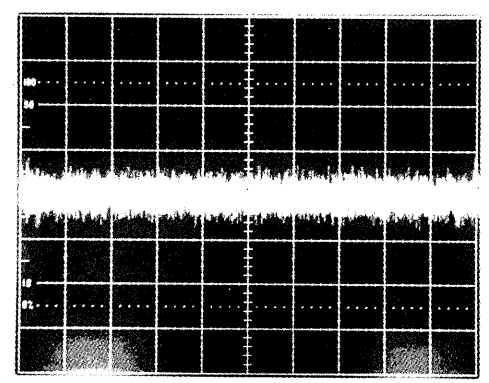


1. Connect the oscilloscope to SERVO board test point TE.
2. Put the set into play mode by loading the disc.
3. Turn SERVO board RV13 from clockwise stop, then check the oscilloscope waveform.
   Fix RV13 at the position where the waveform disappears.

Volt/Div: 0.5 V
Time/Div: 2 mSec

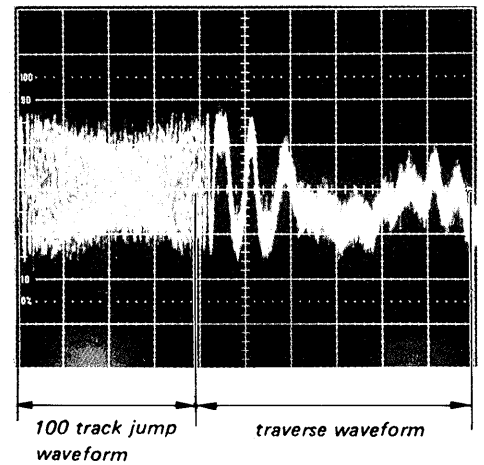


waveform when the wave appears

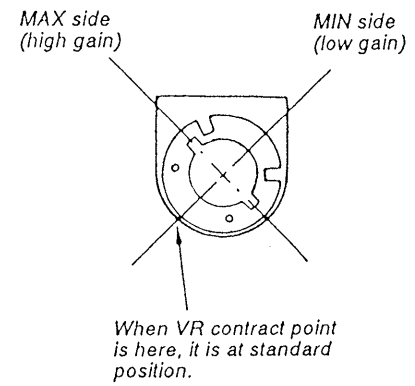


waveform when the wave disappeared

- **When gain lowered...**
  When selecting by pressing ⏮ AMS ⏭ button, brake application is poor because of low tracking gain. Threfore, the traverse waveform appears after the 100 track jump waveform, then the selection will be located slowly.



- **When gain is highered...**
  Operation noise is heard due to a scratch or dust, then operation will be instability.



RV13 standard position

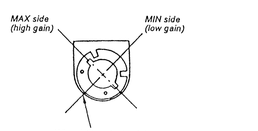
4. Focus Gain Adjustment (coarse adjustment)

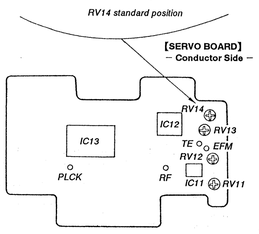
This adjustment is to be performed when replacing the following parts.

- Optical Pick-up Block
- RV14

Procedure:

1. Set RV14 (SERVO board) to the standard position.
2. Check that there is not an abnormal amount of operation noise (white noise) from the 2-axis devise. If there is, turn RV14 slightly clockwise.





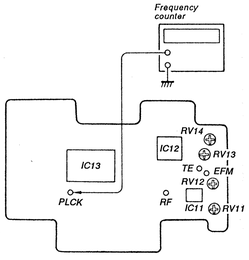
- **When gain is highered…**
  The set does not play because of no focus operation.
- **When gain is highered…**
  Operation noise is heard due to a scratch or a dust, then operation will be unstable.

5. PLL Freerun Frequency Check

Procedure:

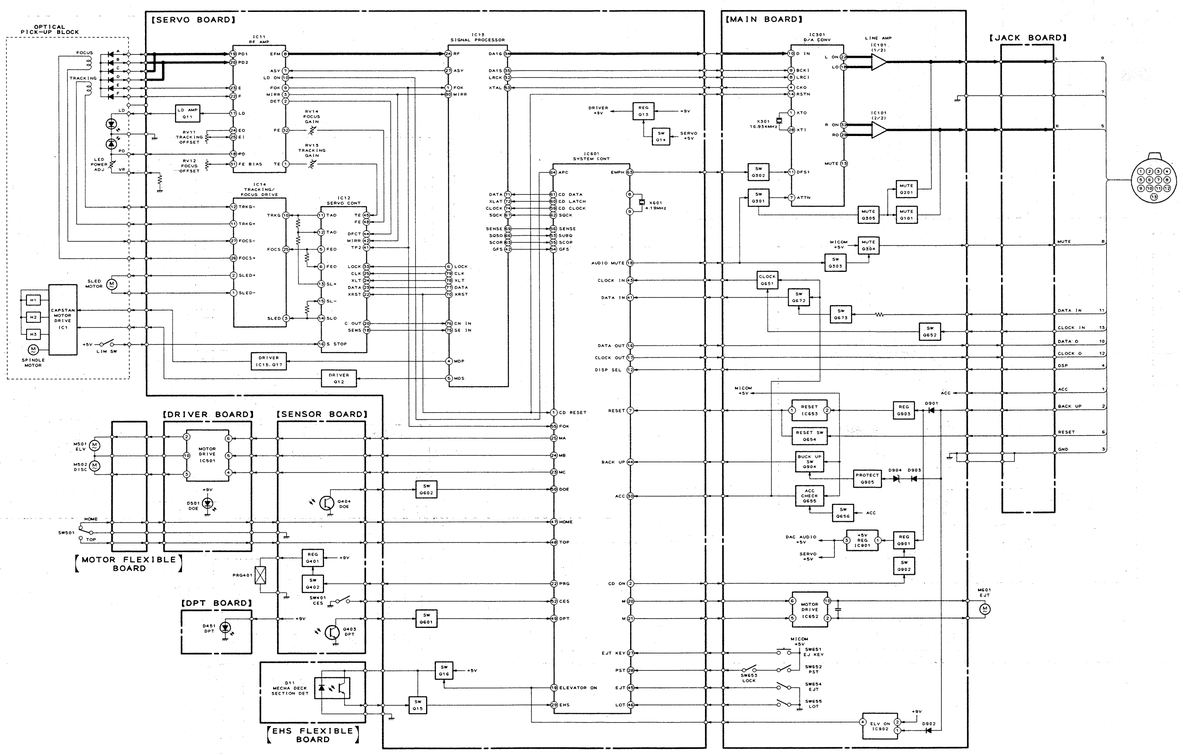
1. Connect frequency counter to Pin ⑭ of IC13 (Test point PLCK).
2. Confirm the frequency is 4.3218 MHz ± 20 kHz.

【SERVO BOARD】 — Conductor Side —

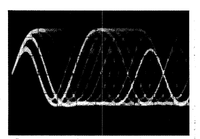


SECTION 4
DIAGRAMS

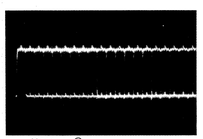
4-1. BLOCK DIAGRAM



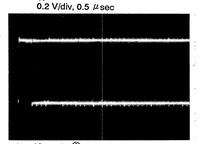
- **Waveforms**



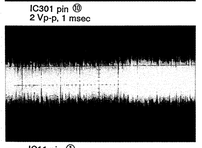
TP
0.2 V/div, 0.5 μsec



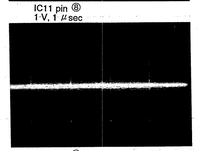
IC301 pin ⑱
2 Vp-p, 1 msec



IC11 pin ⑧
1 V, 1 μsec

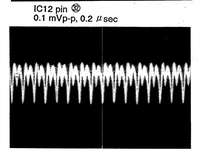


IC11 pin ①
0.2 Vp-p, 5 msec

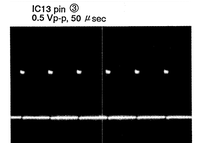


IC12 pin ㉒
0.1 mVp-p, 0.2 μsec

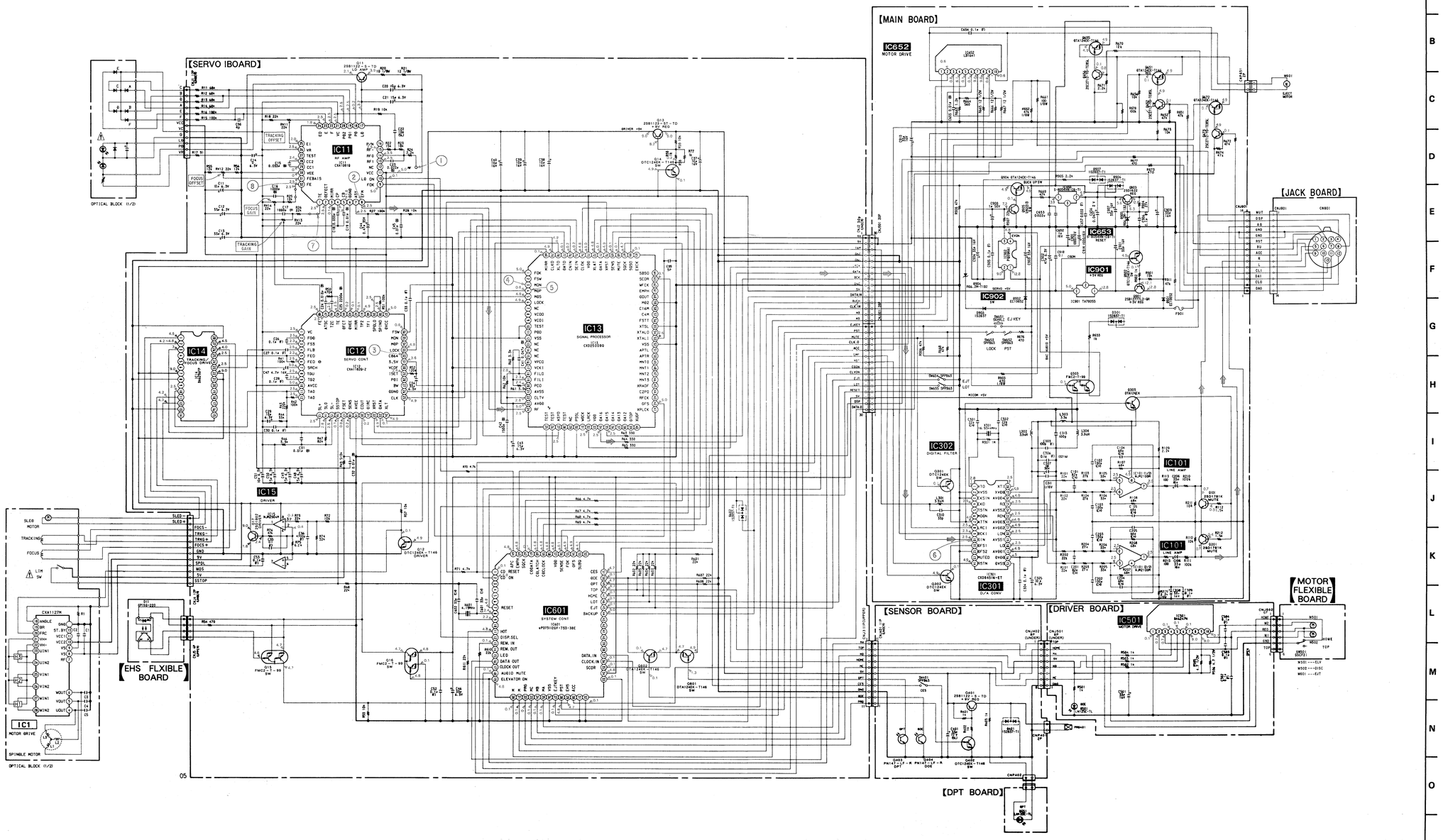
IC11 pin ㉒
0.1 Vp-p, 5 msec



IC13 pin ③
0.5 Vp-p, 50 μsec



IC13 pin ④
2 Vp-p, 5 μsec



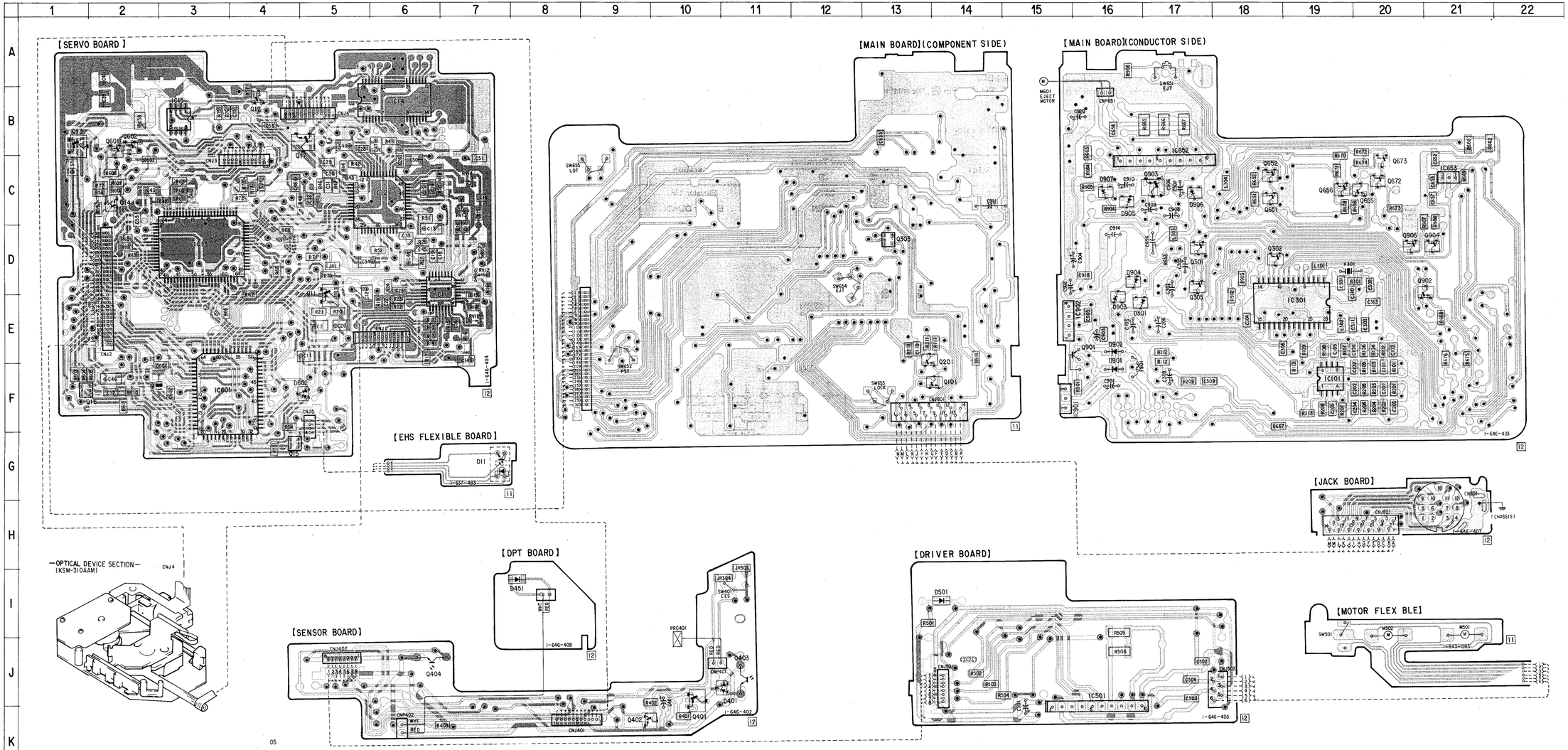
Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ▭ : B + Line.
- ▭ : panel designation.
- ▭ : adjustment for repair.
- Power voltage is dc 14.4 V and fed with regulated dc power supply from CNP1.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (10 MΩ/V). Voltage variations may be noted due to normal production tolerances.
- Wavefroms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to wavefroms.
- Signal path. ▷ : CD

4-3. PRINTED WIRING BOARDS



• **Semiconductor Location**

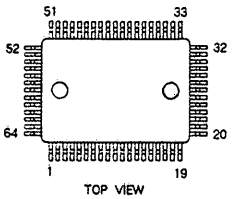
Ref. No.	Location
D11	G-7
D301	E-17
D401	J-11
D451	I-8
D501	I-14
D602	F-5
D901	F-16
D902	E-16
D903	E-16
D904	D-16
D905	C-16
D906	C-17
D907	C-16
IC11	E-7
IC12	C-6
IC13	D-3
IC14	B-6
IC15	B-3
IC101	F-19
IC301	E-19
IC501	K-16
IC601	F-4
IC652	C-17
IC653	C-21
IC901	F-15
IC902	E-15
Q11	E-5
Q12	B-4
Q13	B-1
Q14	C-2
Q15	G-5
Q16	F-2
Q17	B-5
Q101	F-14
Q201	F-14
Q301	D-17
Q302	D-18
Q303	D-13
Q305	E-17
Q401	K-10
Q402	K-10
Q403	J-11
Q404	J-6
Q601	B-2
Q602	B-2
Q651	C-18
Q652	C-18
Q655	C-20
Q656	C-19
Q672	C-20
Q673	C-20
Q901	F-16
Q902	E-21
Q903	C-17
Q904	D-21
Q905	D-20

Note:

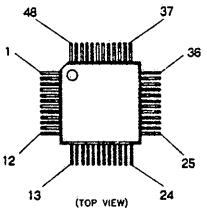
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▨ : Pattern on the side which is seen.
- ▨ : Pattern of the rear side.

• Semiconductor Lead Layouts

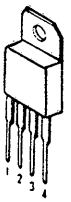
AM27C020-PRT1HV1.3



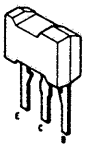
CXA1182QZ



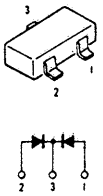
PQ09RA1



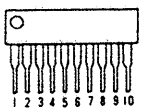
2SA1428-Y



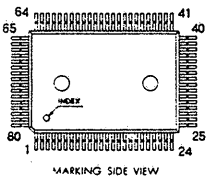
MA152WK



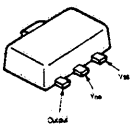
BA6247N
LB1641



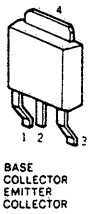
CXD2500AQ



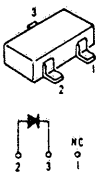
S-8054-HN-CB



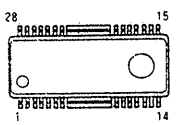
2SD1802-FA-S



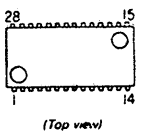
RD6.2M-B2



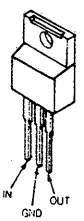
BA6296FP



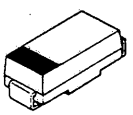
CXD8451M



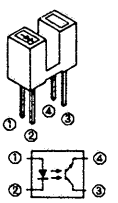
TA7805S



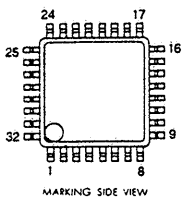
EC10DS2



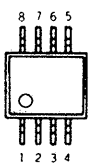
SG-220



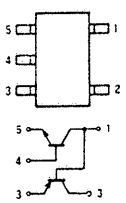
CXA1081Q



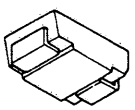
LM2904
NJM2100M



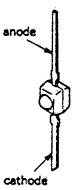
FMC2



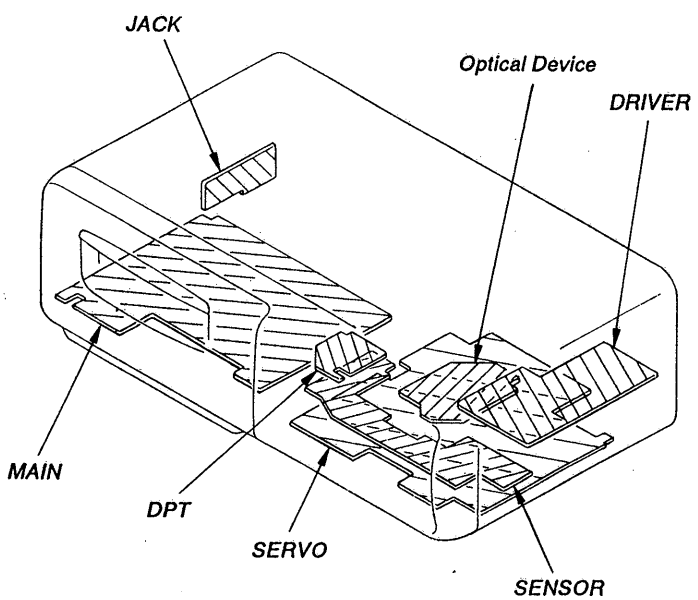
LN1251C



RN147-LF-R



• Circuit Boards Location



4-4. IC501 (BA6247N) MOTOR DRIVER IC OPERATION

(DRIVER BOARD)

The elevator motor connected between Pin ② and Pin ⑩ of IC501 is as M501, and the disc loading/saving motor connected between Pin ③ and Pin ⑩ of IC501 is as M502.

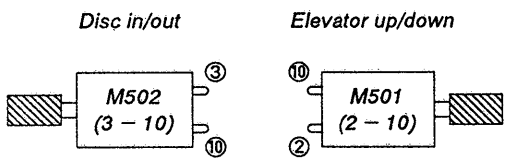
When the IC port logic is Pin ② > Pin ⑩, Pin ③ > Pin ⑩, the rotating direction of M501 and M502 becomes normal.

ROTATION TRUTH TABLE

① When MB = MC, both M501 and M502 are stop. (MA value is free.)

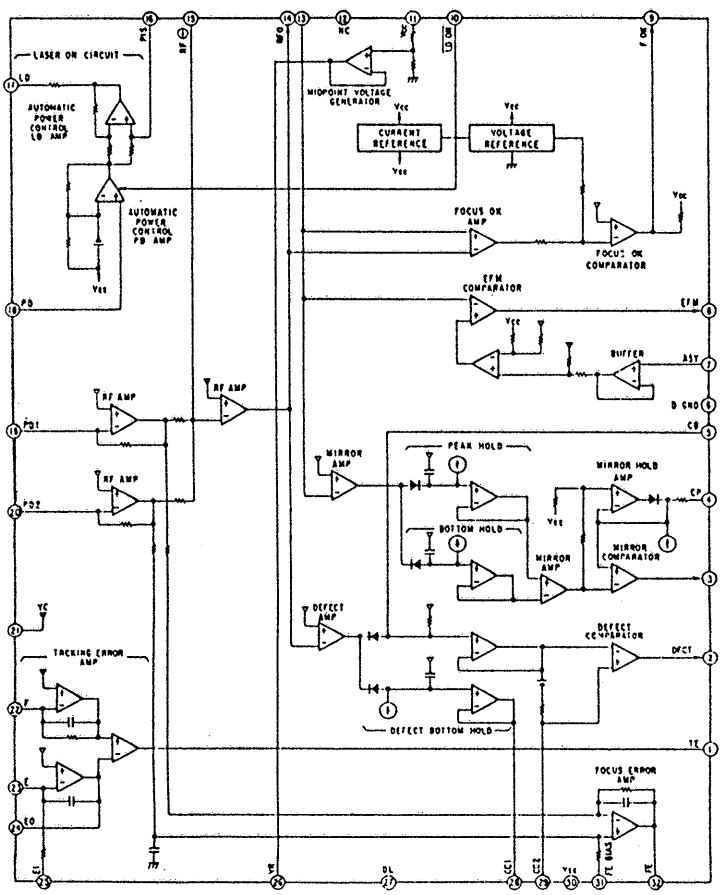
② When MB ≠ MC:

MA Pin ⑥	MB Pin ⑤	MC Pin ④	M501	M502	Motor Terminal			Operation
					②	③	⑩	
L	L	H	Reverse	Stop	L	OPEN	H	Elevator UP
H	L	H	Normal	Stop	H	OPEN	L	Elevator DOWN
L	H	L	Stop	Reverse	OPEN	L	H	Disc load
H	H	L	Stop	Normal	OPEN	H	L	Disc save

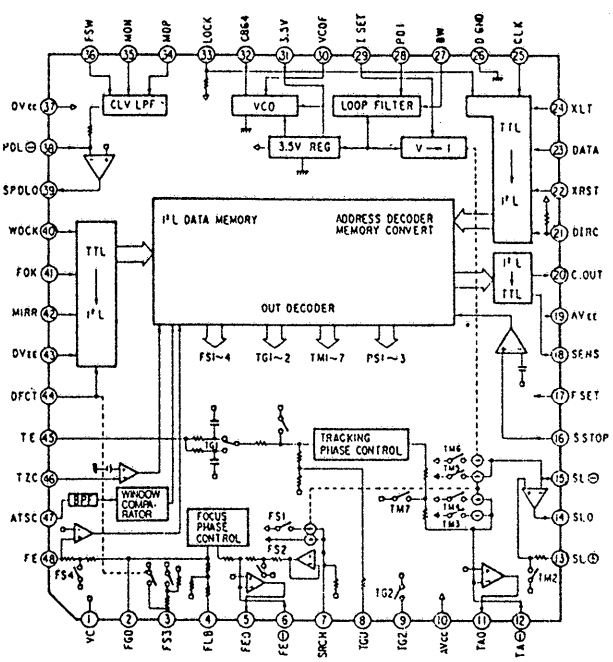


• IC Block Diagrams

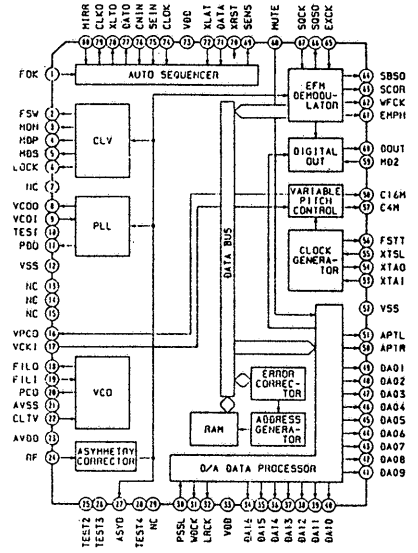
IC11 CXA1081Q



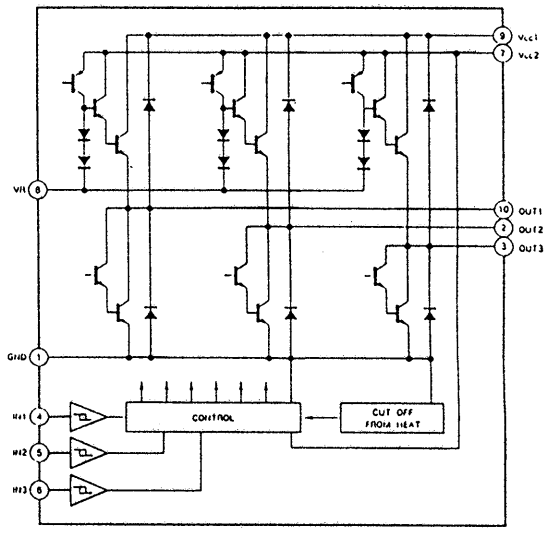
IC12 CXA1182Q-Z



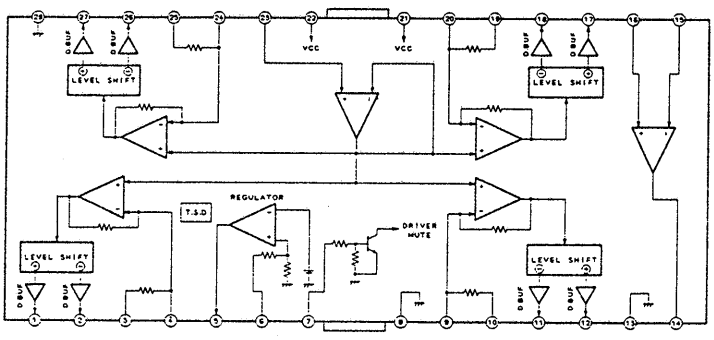
IC13 CXD2500AQ



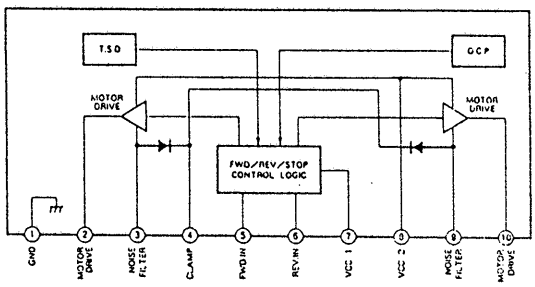
IC501 BA6247N



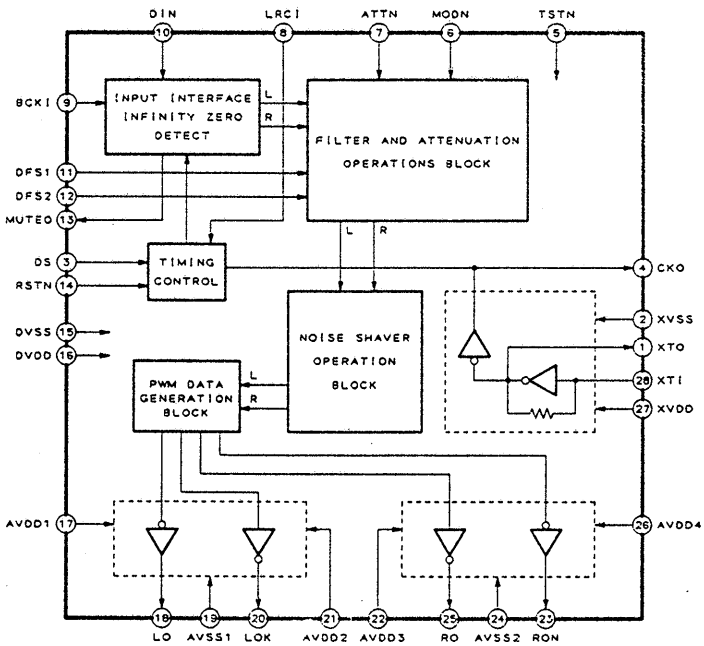
IC14 BA6296FP



IC652 LB1641



IC301 CXD8451M


INPUT INTERFACE INFINITY ZERO DETECT
FILTER AND ATTENUATION OPERATIONS BLOCK
TIMING CONTROL
NOISE SHAVER OPERATION BLOCK
PWM DATA GENERATION BLOCK

SECTION 5
EXPLODED VIEWS

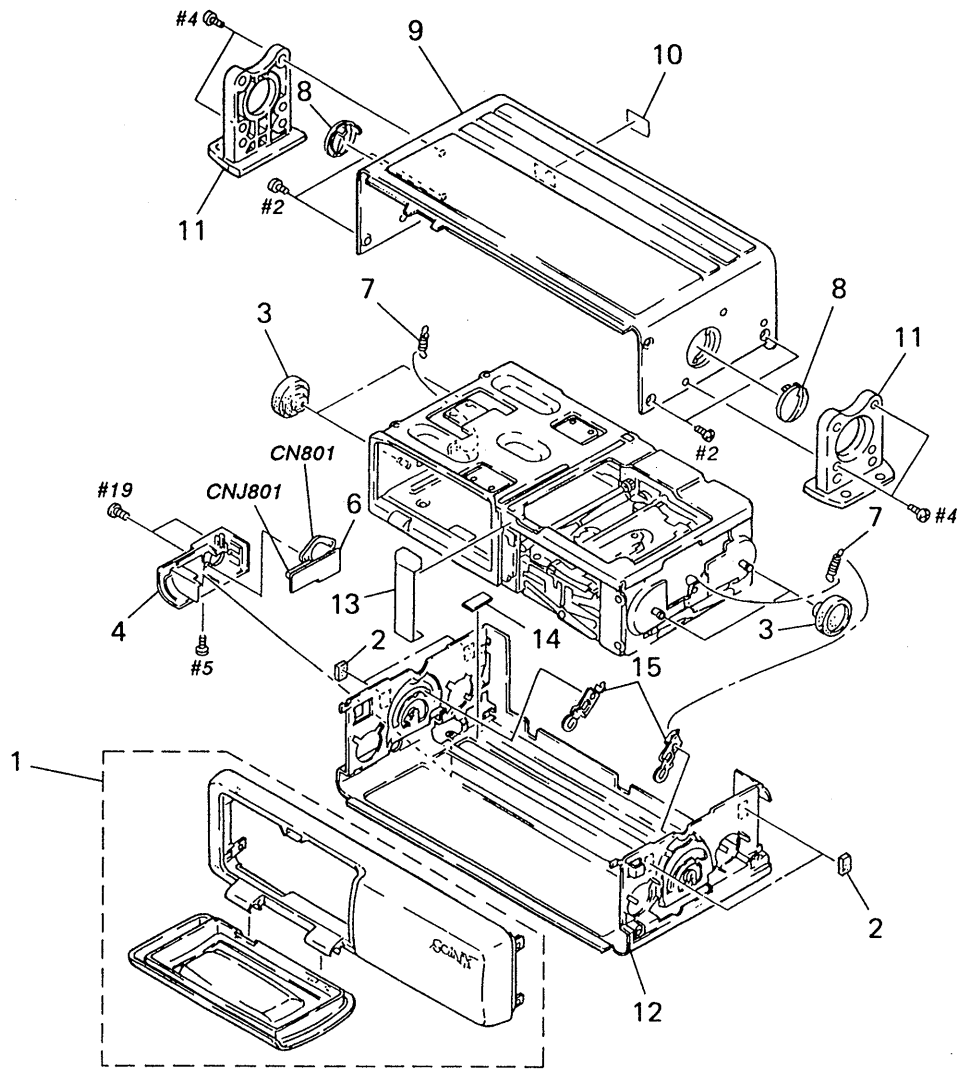
NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

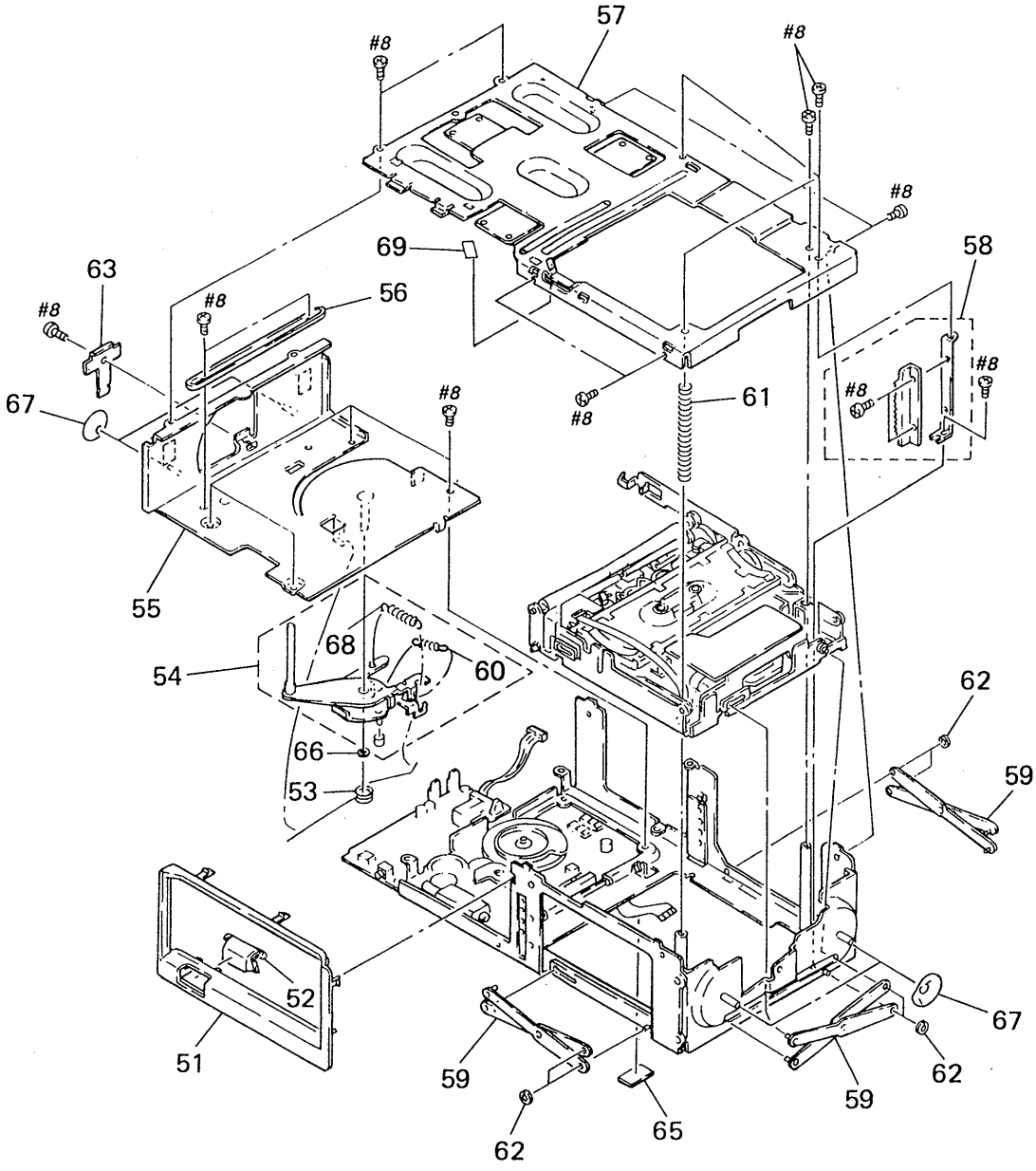
(1) CASE SECTION



Ref. No.	Part No.	Description	Remark
1	X-3366-664-1	PANEL ASSY, FRONT	
2	3-385-834-01	SPACER (CASE)	
3	3-375-501-01	DAMPER (CNG)	
* 4	3-378-507-01	COVER (DIN)	
* 6	1-646-407-12	JACK BOARD	
7	3-368-778-01	SPRING (FL), TENSION	
8	3-375-504-01	LEVER (SPRING)	
* 9	3-375-502-21	CASE (UPPER)	
* 10	3-388-861-01	LABEL MODEL NUMBER (US, E)	

Ref. No.	Part No.	Description	Remark
* 10	3-388-862-01	LABEL MODEL NUMBER (Canadian)	
* 11	3-375-508-01	BRACKET (300)	
* 12	3-375-503-21	CASE (LOWER)	
13	3-372-331-01	SEET (ESCUTCHEON)	
14	3-368-780-01	SHEET (BOARD)	
15	X-3364-882-1	ARM (SPRING) ASSY	
CN801	1-691-980-11	SOCKET, CONNECTOR 13P	
CNJ801	1-695-551-11	SOCKET, CONNECTOR 14P	

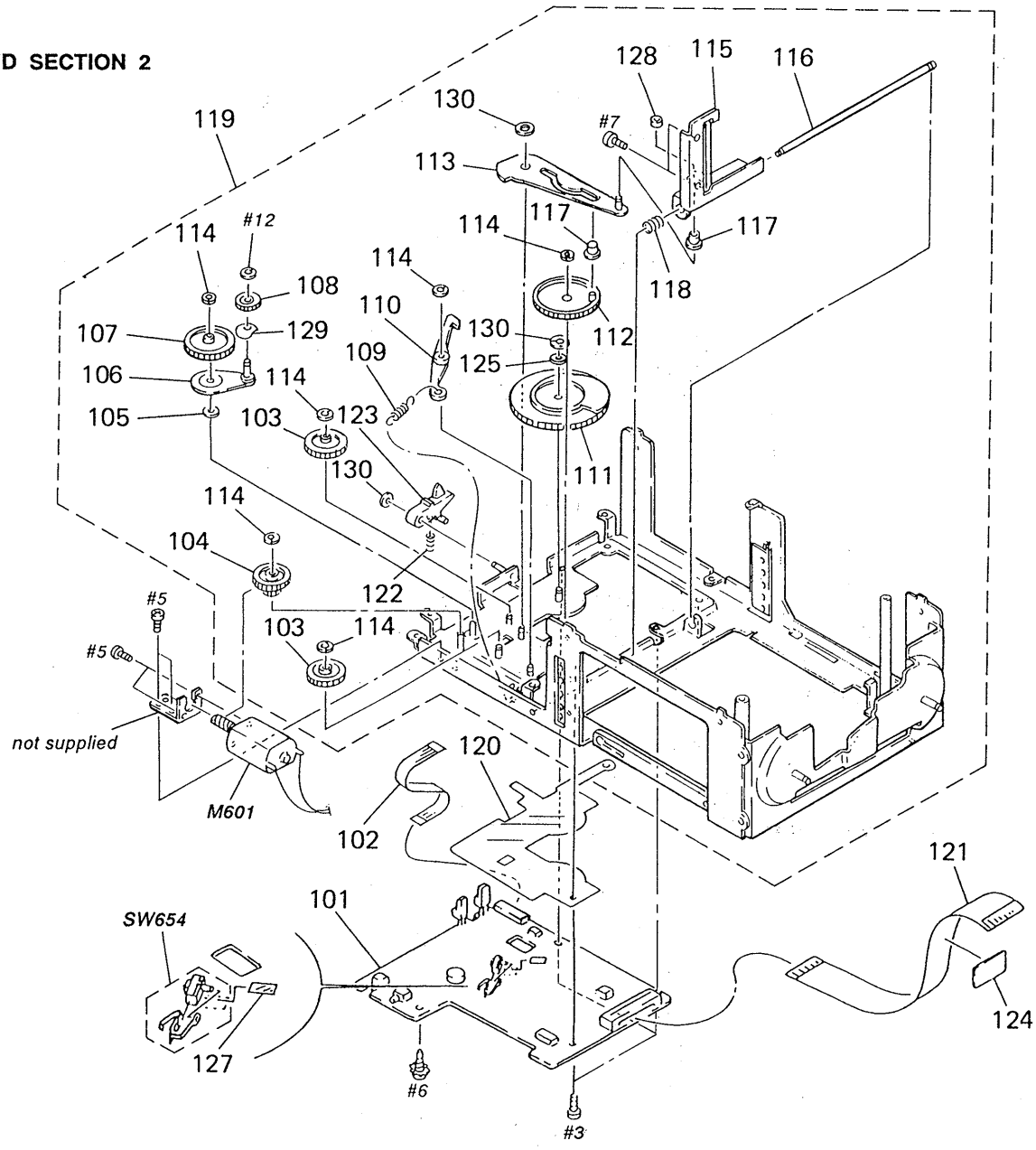
(2) MD SECTION 1



Ref. No.	Part No.	Description	Remark
* 51	3-364-436-01	ESCUTCHEON	
52	3-364-437-01	BUTTON (EJ)	
53	3-364-478-01	SPRING (EJ)	
54	X-3362-332-1	LEVER (EJ) ASSY	
* 55	X-3362-334-1	CHASSIS (MZ) ASSY	
* 56	3-364-434-01	GUIDE (MZ)	
* 57	X-3362-347-1	COVER (MD) ASSY	
58	X-3362-488-1	RACK ASSY	
* 59	X-3362-348-1	LEVER (X) ASSY	

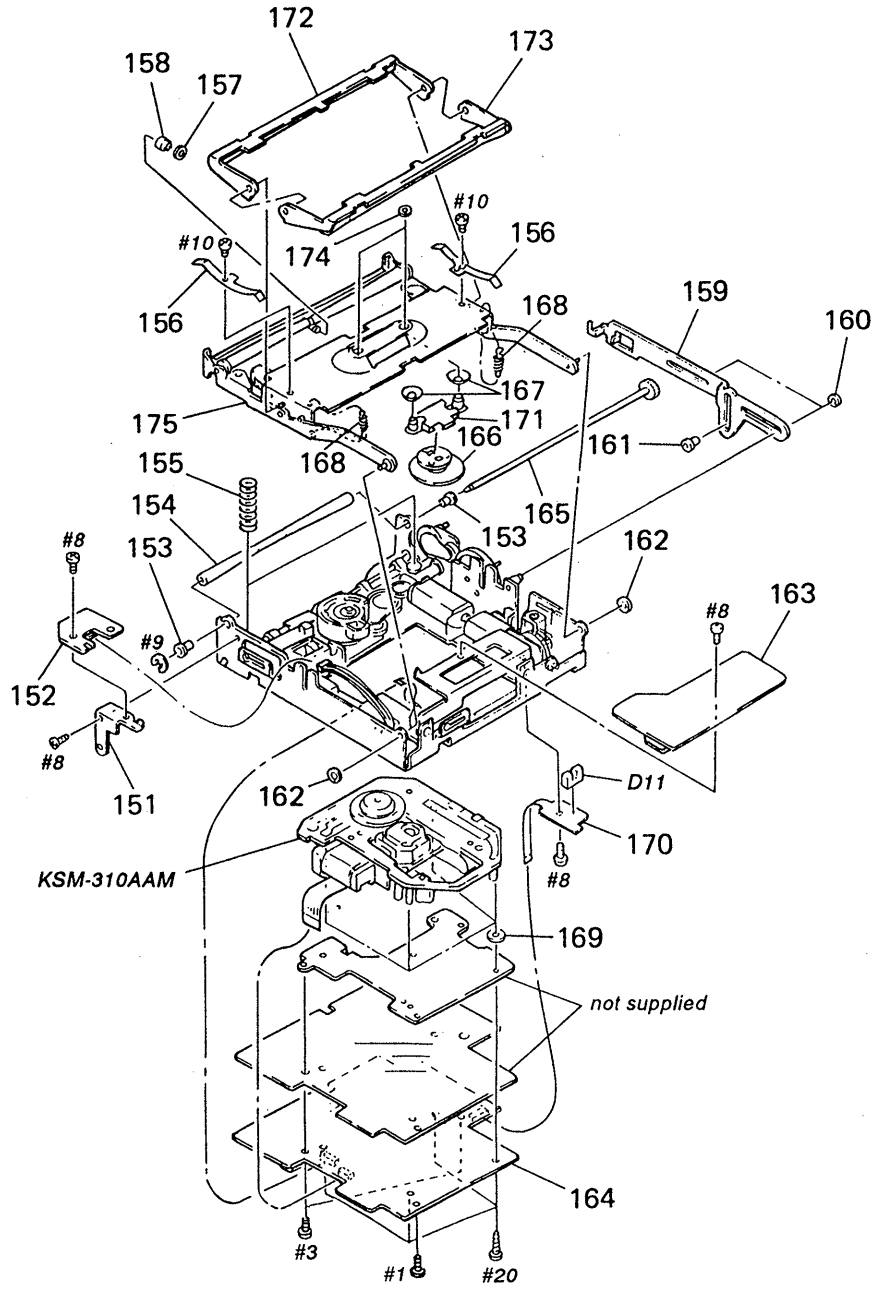
Ref. No.	Part No.	Description	Remark
60	3-568-814-00	SPRING, TENSION	
61	3-370-364-01	SPRING, COMPRESSION	
62	3-377-719-01	WASHER, POLYETHYLENE	
* 63	3-364-410-03	BRACKET (TR)	
65	9-911-844-XX	CUSHION, BATTERY	
66	3-377-720-01	WASHER, POLYETHY LENE	
67	3-385-808-01	SHEET, PROTECTION, DAMPER	
68	3-382-553-02	SPRING (EJ), TENSION	
* 69	3-346-962-01	CUSHION (EJ)	

(3) MD SECTION 2



Ref. No.	Part No.	Description	Remark
* 101	A-3295-404-A	MAIN BOARD, COMPLETE	
102	1-646-391-11	CONNECTOR FLEXIBLE BOARD	
103	3-364-420-01	GEAR (M)	
104	3-364-413-01	WHEEL (B), WORM	
105	3-701-437-01	WASHER	
106	X-3364-526-2	LEVER (KMZ) ASSY	
107	3-364-417-01	GEAR (L)	
108	3-364-415-01	GEAR (KS)	
109	3-531-866-01	SPRING, TENSION	
110	3-364-433-01	STOPPER (DR)	
111	3-364-411-01	GEAR (EJ), CAM	
112	3-364-432-01	GEAR (DR)	
* 113	X-3364-527-1	LEVER (DR) ASSY	
114	3-377-719-01	WASHER, POLYETHYLENE	
* 115	X-3364-525-1	SLIDER (DR) ASSY	
* 116	3-364-502-01	SHAFT (SDR)	
117	3-364-506-01	ROLLER (SL)	
118	3-568-315-01	SPRING, COMPRESSION	
* 119	X-3364-556-1	CHASSIS SUB ASSY, MD	
* 120	3-368-567-01	SHEET (MD), INSULATING	
121	1-642-837-11	ELEVATOR FLEXIBLE BOARD	
122	3-370-385-01	SPRING, COMPRESSION	
* 123	3-364-431-01	LEVER (MZ LOCK)	
124	9-911-844-XX	CUSHION, BATTERY	
125	3-373-013-01	SPRING (EJ CAM)	
* 127	4-920-366-01	SPACER (S)	
128	3-379-490-11	WASHER, POLYETHYLENE	
129	3-364-387-11	SPRING (F)	
130	3-377-720-21	WASHER, POLYETHYLENE	
M601	X-3362-325-1	MOTOR ASSY	
SW654	1-571-754-31	SWITCH, PUSH (1 KEY) (EJECT DET)	

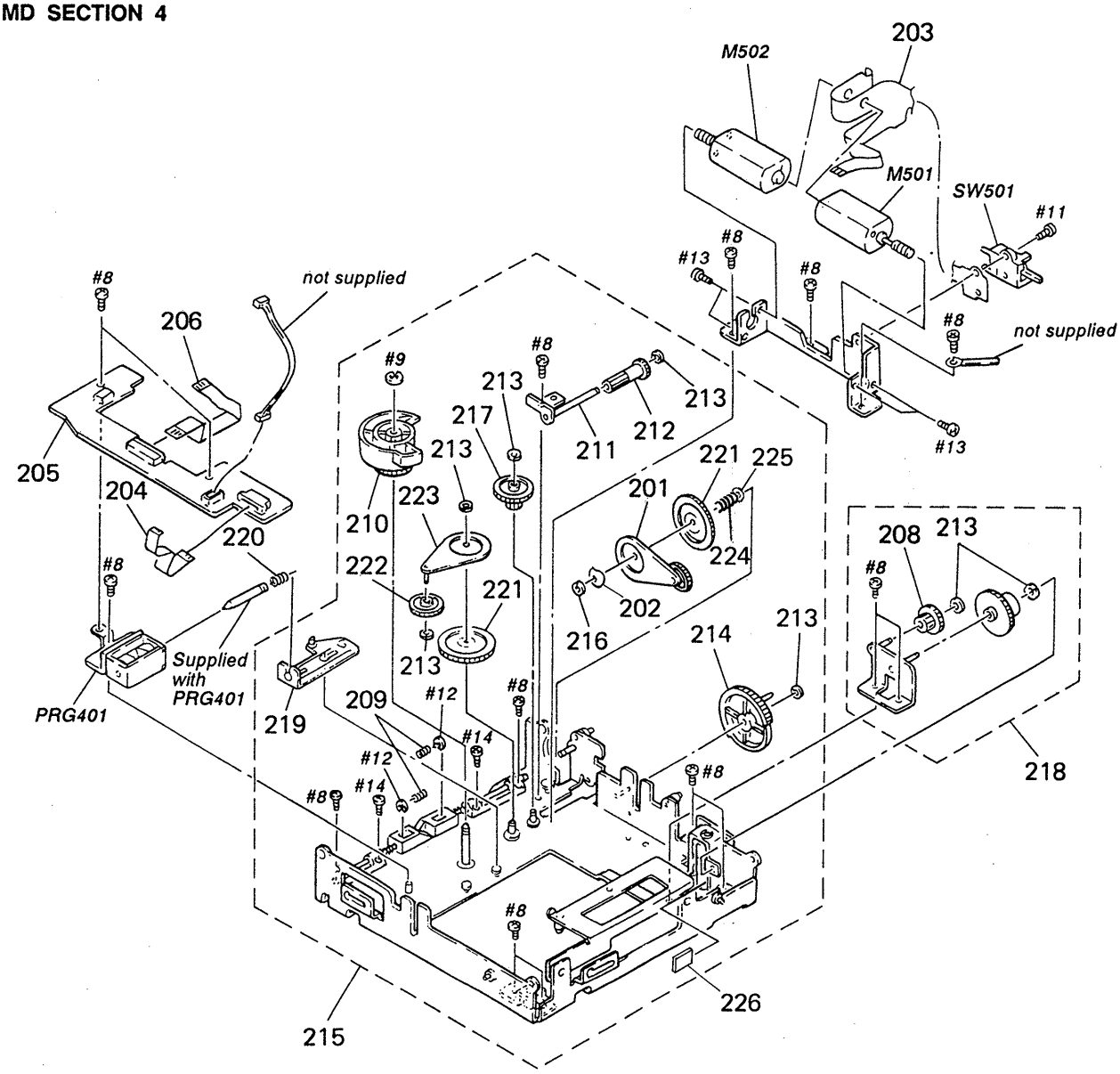
(4) MD SECTION 3



Ref. No.	Part No.	Description	Remark
* 151	3-368-565-01	BRACKET (DPT)	
* 152	1-646-408-12	DPT BOARD	
153	3-364-421-01	BEARING (ROLLER)	
154	3-323-231-11	ROLLER (LOWER)	
155	3-364-508-01	SPRING, COMPRESSION	
156	3-375-290-01	SPRING (DH)	
157	3-341-752-11	WASHER, POLYETHYLENE	
158	3-364-504-01	ROLLER (RA)	
* 159	3-364-380-01	LEVER, SLIDE	
160	3-377-720-11	WASHER, POLYETHYLENE	
161	3-364-506-01	ROLLER (SL)	
162	3-377-719-01	WASHER, POLYETHYLENE	
* 163	1-646-405-12	DRIVER BOARD	

Ref. No.	Part No.	Description	Remark
164	A-3273-950-A	SERVO BOARD, COMPLETE	
165	X-3362-345-1	GEAR ASSY, ROLLER	
166	3-380-759-02	PLATE (C), CHUCK	
167	3-364-387-01	SPRING (F)	
168	3-371-504-01	SPRING, TENSION	
* 169	3-360-121-31	SPACER (W)	
170	1-637-483-11	ESH FLEXIBLE BOARD	
171	X-3364-480-2	BRACKET (CP) ASSY	
172	X-3364-482-2	ARM (DH) ASSY	
173	X-3364-483-2	ARM (DH2) ASSY	
174	3-342-940-01	WASHER (M)	
175	X-3366-564-1	ARM (R2) ASSY	
D11	8-749-924-17	DIODE PHOTO INTERRUPTER SG-220	

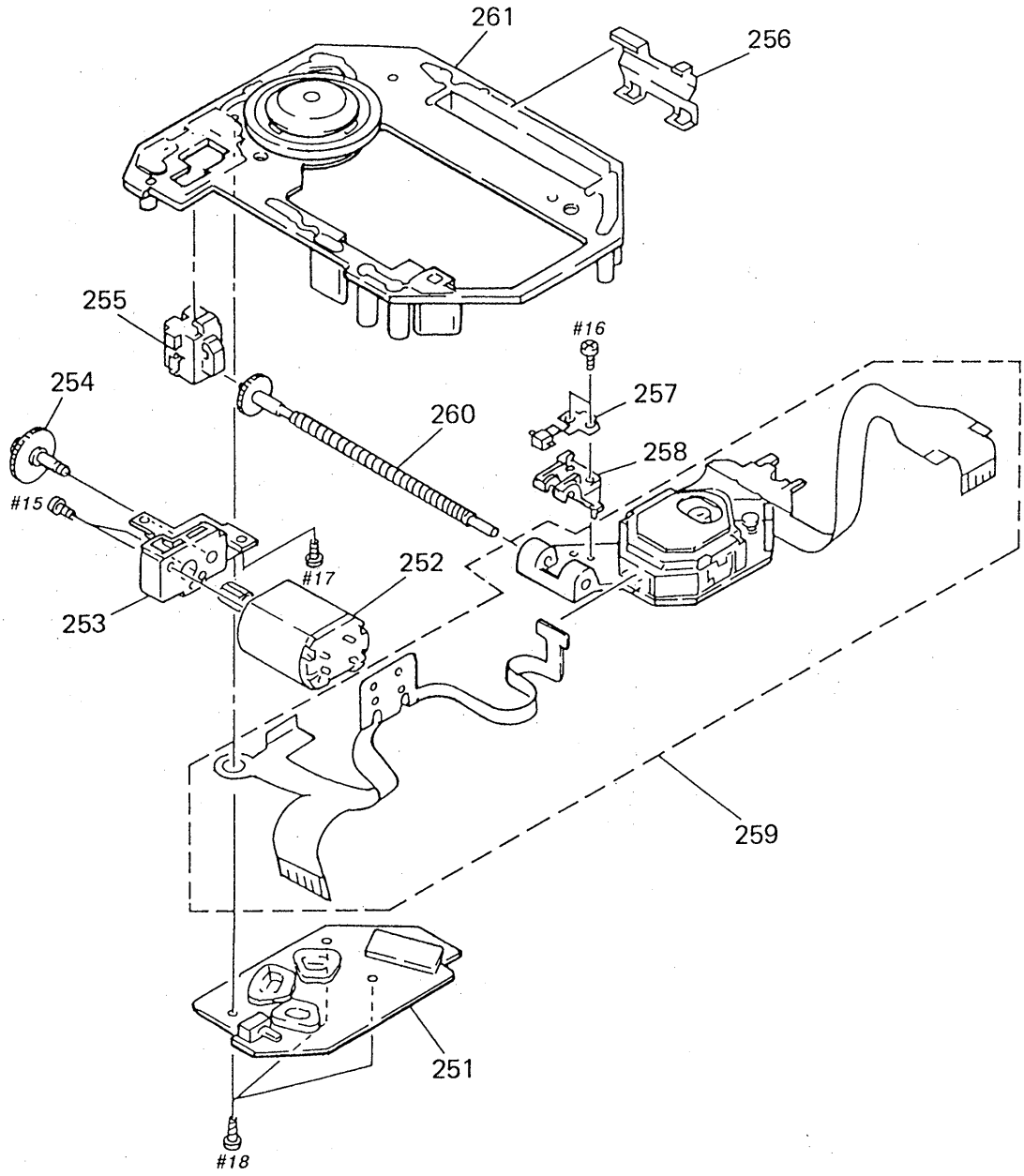
(5) MD SECTION 4



Ref. No.	Part No.	Description	Remark
201	X-3364-535-3	GEAR (KW) ASSY	
202	3-364-387-11	SPRING (F)	
203	1-643-083-11	MOTOR FLEXIBLE BOARD	
204	1-642-972-11	DRIVER FLEXIBLE BOARD	
* 205	1-646-406-12	SENSOR BOARD	
206	1-642-931-11	SENSOR FLEXIBLE BOARD	
208	X-3365-420-1	WHEEL (E) ASSY, WORM	
209	3-485-239-00	SPRING, COMPRESSION	
210	3-364-419-01	GEAR (R), CAM	
211	X-3364-530-1	BRACKET (WWR) ASSY	
212	3-364-416-01	WHEEL (R), WORM	
213	3-321-813-01	WASHER, COTTER POLYETHYLENE	
214	3-364-418-01	GEAR (SL)	
* 215	X-3364-555-5	CHASSIS SUB ASSY, EV	

Ref. No.	Part No.	Description	Remark
216	3-377-719-11	WASHER, POLYETHYLENE	
217	3-364-505-01	WHEEL (C), WORM	
218	X-3362-870-1	GEAR ASSY, EV	
219	X-3364-531-1	SLIDER (KR) ASSY	
220	3-353-804-01	SPRING, COMPRESSION	
221	3-364-417-01	GEAR (L)	
222	3-364-422-01	GEAR (K)	
223	X-3364-529-1	LEVER (KRA) ASSY	
224	3-388-479-01	SPRING, COMPRESSION	
225	3-701-441-11	WASHER	
* 226	3-317-054-01	SPACER, E	
M501	X-3362-325-1	MOTOR ASSY	
M502	X-3362-325-1	MOTOR ASSY	
PRG401	1-454-580-11	SOLENOID, PLUNGER	
SW501	1-571-300-31	SWITCH, ROTARY	

(6) OPTICAL PICK-UP BLOCK (KSM-310AAM)



Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

Ref. No.	Part No.	Description	Remark
251	8-835-456-01	MOTOR, DC SSC-02E01S	
252	X-2625-210-1	GEAR ASSY, SLED MOTOR	
* 253	2-625-513-01	BASE, DRIVING	
254	2-625-507-01	GEAR (B2)	
* 255	A-4910-348-B	RETAINER ASSY, THRUST	
* 256	2-625-514-01	COVER, FLEXIBLE	

Ref. No.	Part No.	Description	Remark
257	2-625-516-01	SPRING (A), FEED	
258	2-625-515-01	RACK (AT)	
⚠259	8-848-178-11	DEVICE, OPTICAL KSS-310AAM	
260	X-2625-209-1	SCREW ASSY, SLED	
261	X-2625-270-1	CHASSIS ASSY, (RP) OMD	

SECTION 6
ELECTRICAL PARTS LIST

MAIN

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
*	A-3295-404-A	MAIN BORAD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-163-115-00	CERAMIC CHIP	82PF	5%	50V
C102	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C103	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C104	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C105	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C106	1-124-034-51	ELECT	33uF	20%	16V
C201	1-163-115-00	CERAMIC CHIP	82PF	5%	50V
C202	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C203	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C204	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C205	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C206	1-124-034-51	ELECT	33uF	20%	16V
C301	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C302	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C303	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C304	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C305	1-127-558-11	ELECT(SOLID)	10uF	20%	10V
C306	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C307	1-126-301-11	ELECT	1uF	20%	50V
C308	1-124-034-51	ELECT	33uF	20%	16V
C309	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C310	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C311	1-135-091-00	TANTALUM CHIP	1uF	20%	16V
C313	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C652	1-135-091-00	TANTALUM CHIP	1uF	20%	16V
C653	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C654	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C655	1-163-059-00	CERAMIC CHIP	0.01uF	10%	50V
C656	1-125-733-31	CAP, DOUBLE LAYER		0.047F	
C657	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V

Ref. No.	Part No.	Description			Remark
C901	1-124-034-51	ELECT	33uF	20%	16V
C902	1-126-154-11	ELECT	47uF	20%	6.3V
C903	1-124-034-51	ELECT	33uF	20%	16V
C904	1-124-034-51	ELECT	33uF	20%	16V
C905	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C906	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C907	1-124-034-51	ELECT	33uF	20%	16V
C908	1-126-301-11	ELECT	1uF	20%	50V
C909	1-124-034-51	ELECT	33uF	20%	16V
C910	1-124-034-51	ELECT	33uF	20%	16V
C914	1-124-360-00	ELECT	1000uF	20%	16V
C918	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C920	1-124-360-00	ELECT	1000uF	20%	16V
		< JACK >			
* CNJ801	1-565-862-11	SOCKET, CONNECTOR 14P			
CNJ901	1-569-481-21	CONNECTOR, FPC 30P			
		< CONNECTOR >			
* CNP651	1-506-998-11	PIN, CONNECTOR (PC BOARD) 2P			
		< DIODE >			
D301	8-719-400-18	DIODE MA152WK			
D901	8-719-210-33	DIODE EC10DS2			
D902	8-719-210-33	DIODE EC10DS2			
D903	8-719-400-18	DIODE MA152WK			
D904	8-719-106-08	DIODE RD6.2M-B2			
D905	8-719-106-08	DIODE RD6.2M-B2			
D906	8-719-400-18	DIODE MA152WK			
D907	8-719-400-18	DIODE MA152WK			
		< FUSE >			
⚠F901	1-532-686-00	LINK, IC 2.7A			

MAIN

Ref. No.	Part No.	Description			Remark
		< IC >			
IC101	8-759-710-55	IC NJM2100M			
IC301	8-759-093-98	IC CXD8451M			
IC652	8-759-822-09	IC LB1641			
IC653	8-759-940-45	IC S-8054HN-CB			
IC901	8-759-231-53	IC TA7805S			
IC902	8-759-054-12	IC PQ09RA1			
		< JUMPER RESISTOR >			
JW901	1-218-817-11	METAL GLAZE	3.3	10%	1/2W
JW902	1-218-817-11	METAL GLAZE	3.3	10%	1/2W
JW903	1-218-817-11	METAL GLAZE	3.3	10%	1/2W
		< COIL >			
L301	1-412-001-31	INDUCTOR CHIP	3.9uH		
L302	1-412-001-31	INDUCTOR CHIP	3.9uH		
L303	1-410-198-51	INDUCTOR CHIP	3.3uH		
L304	1-412-001-31	INDUCTOR CHIP	3.9uH		
		< TRANSISTOR >			
Q101	8-729-921-73	TRANSISTOR 2SD1781K-QR			
Q201	8-729-921-73	TRANSISTOR 2SD1781K-QR			
Q301	8-729-424-59	TRANSISTOR UN2212			
Q302	8-729-424-59	TRANSISTOR UN2212			
Q303	8-729-921-25	TRANSISTOR FMC2			
Q305	8-729-424-12	TRANSISTOR UN2112			
Q651	8-729-424-12	TRANSISTOR UN2112			
Q652	8-729-230-49	TRANSISTOR 2SC2712-G			
Q655	8-729-424-12	TRANSISTOR UN2112			
Q656	8-729-230-49	TRANSISTOR 2SC2712-G			
Q672	8-729-424-12	TRANSISTOR UN2112			
Q673	8-729-230-49	TRANSISTOR 2SC2712-G			
Q901	8-729-205-95	TRANSISTOR 2SA1428-Y			
Q902	8-729-424-59	TRANSISTOR UN2212			
Q903	8-729-808-01	TRANSISTOR 2SD1622-S			
Q904	8-729-424-12	TRANSISTOR UN2112			
Q905	8-729-421-19	TRANSISTOR UN2213			
		< RESISTOR >			
R101	1-216-081-00	METAL CHIP	22K	5%	1/10W
R102	1-216-081-00	METAL CHIP	22K	5%	1/10W
R103	1-216-083-00	METAL CHIP	27K	5%	1/10W
R104	1-216-083-00	METAL CHIP	27K	5%	1/10W
R105	1-216-085-00	METAL CHIP	33K	5%	1/10W
R106	1-216-085-00	METAL CHIP	33K	5%	1/10W
R107	1-216-093-00	METAL CHIP	68K	5%	1/10W
R108	1-216-093-00	METAL CHIP	68K	5%	1/10W
R109	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R110	1-216-097-00	METAL CHIP	100K	5%	1/10W
R111	1-216-001-00	METAL CHIP	10	5%	1/10W
R112	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R113	1-216-025-00	METAL CHIP	100	5%	1/10W
R201	1-216-081-00	METAL CHIP	22K	5%	1/10W
R202	1-216-081-00	METAL CHIP	22K	5%	1/10W
R203	1-216-083-00	METAL CHIP	27K	5%	1/10W
R204	1-216-083-00	METAL CHIP	27K	5%	1/10W
R205	1-216-085-00	METAL CHIP	33K	5%	1/10W
R206	1-216-085-00	METAL CHIP	33K	5%	1/10W
R207	1-216-093-00	METAL CHIP	68K	5%	1/10W
R208	1-216-093-00	METAL CHIP	68K	5%	1/10W
R209	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R210	1-216-097-00	METAL CHIP	100K	5%	1/10W
R211	1-216-001-00	METAL CHIP	10	5%	1/10W
R212	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R213	1-216-025-00	METAL CHIP	100	5%	1/10W
R301	1-216-121-00	METAL CHIP	1M	5%	1/10W
R651	1-216-089-00	METAL CHIP	47K	5%	1/10W
R652	1-216-089-00	METAL CHIP	47K	5%	1/10W
R653	1-216-049-00	METAL CHIP	1K	5%	1/10W
R656	1-216-073-00	METAL CHIP	10K	5%	1/10W
R661	1-216-174-00	METAL GLAZE	100	5%	1/8W
R662	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R663	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R664	1-216-043-00	METAL CHIP	560	5%	1/10W
R665	1-218-279-11	METAL GLAZE	12	5%	1/2W
R666	1-218-279-11	METAL GLAZE	12	5%	1/2W
R667	1-218-279-11	METAL GLAZE	12	5%	1/2W
R668	1-216-089-00	METAL CHIP	47K	5%	1/10W
R669	1-216-073-00	METAL CHIP	10K	5%	1/10W
R670	1-216-075-00	METAL CHIP	12K	5%	1/10W
R671	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R672	1-216-089-00	METAL CHIP	47K	5%	1/10W
R673	1-216-073-00	METAL CHIP	10K	5%	1/10W
R674	1-216-089-00	METAL CHIP	47K	5%	1/10W
R675	1-216-190-00	METAL GLAZE	470	5%	1/8W
R676	1-216-190-00	METAL GLAZE	470	5%	1/8W
R677	1-216-041-00	METAL CHIP	470	5%	1/10W
R678	1-216-097-00	METAL CHIP	100K	5%	1/10W
R901	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R902	1-216-198-00	METAL CHIP	1K	5%	1/8W
R903	1-216-190-00	METAL GLAZE	470	5%	1/8W
R904	1-216-083-00	METAL CHIP	27K	5%	1/10W
R905	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R906	1-216-089-00	METAL CHIP	47K	5%	1/10W
R907	1-216-081-00	METAL CHIP	22K	5%	1/10W
R908	1-216-089-00	METAL CHIP	47K	5%	1/10W
R911	1-216-089-00	METAL CHIP	47K	5%	1/10W
		< SWITCH >			
SW651	1-571-532-51	SWITCH, TACTIL (EJECT)			
SW652	1-571-754-31	SWITCH, PUSH (1 KEY) (PST)			
SW653	1-571-754-31	SWITCH, PUSH (1 KEY) (LOCK)			
SW654	1-571-754-31	SWITCH, PUSH (1 KEY) (EJT)			
SW655	1-571-754-31	SWITCH, PUSH (1 KEY) (LOT)			
		< VIBRATOR >			
X301	1-567-908-11	VIBRATOR, CRYSTAL 16.9344MHz			
**********					
*	1-646-408-12	DPT BOARD			
		*********			
		< DIODE >			
D451	8-719-404-19	DIODE LN1251C			
**********					
*	1-646-405-12	DRIVER BOARD			
		**********			
		< CAPACITOR >			
C501	1-124-034-51	ELECT	33uF	20%	16V
C502	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C503	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C504	1-163-038-00	CERAMIC CHIP	0.1uF		25V
		< JACK >			
CNJ501	1-566-524-11	CONNECTOR, FPC (ZIF) 8P			
CNJ502	1-565-340-11	SOCKET, CONNECTOR 6P			
		< DIODE >			
D501	8-719-404-19	DIODE LN1251C			
		< IC >			
IC501	8-759-511-17	IC BA6247N			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R501	1-216-049-00	METAL CHIP	1K	5%	1/10W
R502	1-216-049-00	METAL CHIP	1K	5%	1/10W
R503	1-216-049-00	METAL CHIP	1K	5%	1/10W
R504	1-216-049-00	METAL CHIP	1K	5%	1/10W
R505	1-218-232-91	METAL GLAZE	4.7	10%	1/2W
R506	1-218-232-91	METAL GLAZE	4.7	10%	1/2W
**********					
	1-637-483-11	EHS FLEXIBLE BOARD			
		**********			
		< DIODE >			
D11	8-749-924-17	DIODE PHOTO INTERRUPTER SG-220			
**********					
*	1-646-407-12	JACK BOARD			
		**********			
	3-380-181-01	PLATE, GROUND			
		< CONNECTOR >			
CN801	1-691-980-11	SOCKET, CONNECTOR 13P (TO CHANGER CONTRL)			
		< JACK >			
* CNJ801	1-695-559-11	SOCKET, CONNECTOR 14P			
**********					
*	1-646-406-12	SENSOR BOARD			
		**********			
		< CAPACITOR >			
C401	1-124-229-00	ELECT	33uF	20%	10V
		< JACK >			
CNJ401	1-566-527-11	CONNECTOR, FPC (ZIF) 11P			
CNJ402	1-566-524-11	CONNECTOR, FPC (ZIF) 8P			
		< CONNECTOR >			
* CNP401	1-506-998-11	PIN, CONNECTOR (PC BOARD) 2P			
* CNP402	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
		< DIODE >			
D401	8-719-400-18	DIODE MA152WK			

SENSOR SERVO

Ref. No.	Part No.	Description			Remark
		< JUMPER RESISTOR >			
JR303	1-216-296-00	METAL CHIP	0	5%	1/8W
JR304	1-216-296-00	METAL CHIP	0	5%	1/8W
		< TRANSISTOR >			
Q401	8-729-804-41	TRANSISTOR 2SB1122-S			
Q402	8-729-424-59	TRANSISTOR UN2212			
Q403	8-729-402-08	TRANSISTOR PN147-LF			
Q404	8-729-402-08	TRANSISTOR PN147-LF			
		< RESISTOR >			
R401	1-216-049-00	METAL CHIP	1K	5%	1/10W
R402	1-216-049-00	METAL CHIP	1K	5%	1/10W
R403	1-216-049-00	METAL CHIP	1K	5%	1/10W
		< SWITCH >			
SW401	1-571-754-31	SWITCH, PUSH (1 KEY) (CES)			
**********					
*	A-3273-950-A	SERVO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C11	1-135-157-21	TANTALUM CHIP	10uF	20%	6.3V
C12	1-135-162-21	TANTALUM CHIP	33uF	20%	6.3V
C13	1-135-162-21	TANTALUM CHIP	33uF	20%	6.3V
C14	1-135-157-21	TANTALUM CHIP	10uF	20%	6.3V
C15	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C16	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C17	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C18	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C19	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C20	1-135-157-21	TANTALUM CHIP	10uF	20%	6.3V
C21	1-128-535-21	ELECT CHIP	15uF	20%	6.3V
C22	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C23	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C24	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V
C25	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C26	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C27	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C28	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C29	1-135-157-21	TANTALUM CHIP	10uF	20%	6.3V
C30	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C31	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C32	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C33	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C34	1-135-162-21	TANTALUM CHIP	33uF	20%	6.3V
C35	1-163-038-00	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remark
C36	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C37	1-128-313-11	ELECT CHIP	10uF	20%	16V
C38	1-128-313-11	ELECT CHIP	10uF	20%	16V
C39	1-128-313-11	ELECT CHIP	10uF	20%	16V
C40	1-128-313-11	ELECT CHIP	10uF	20%	16V
C41	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C42	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C43	1-128-535-21	ELECT CHIP	15uF	20%	6.3V
C44	1-135-145-11	TANTALUM CHIP	0.47uF	10%	35V
C45	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C46	1-135-162-21	TANTALUM CHIP	33uF	20%	6.3V
C47	1-135-155-21	TANTALUM CHIP	4.7uF	10%	16V
C48	1-128-535-21	ELECT CHIP	15uF	20%	6.3V
C49	1-128-535-21	ELECT CHIP	15uF	20%	6.3V
C50	1-128-535-21	ELECT CHIP	15uF	20%	6.3V
C51	1-135-157-21	TANTALUM CHIP	10uF	20%	6.3V
C52	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C53	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C55	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C56	1-163-087-00	CERAMIC CHIP	4PF		50V
C601	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C602	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
		< JACK >			
CNJ1	1-566-528-21	CONNECTOR, FPC (ZIF) 12P			
* CNJ2	1-569-035-11	CONNECTOR, FPC (ZIF) 30P			
CNJ3	1-568-236-21	CONNECTOR, FPC (1.0MM) (ZIF) 11P			
CNJ4	1-566-528-21	CONNECTOR, FPC (ZIF) 12P			
CNJ5	1-580-438-21	CONNECTOR, FPC 4P			
		< DIODE >			
D602	8-719-400-18	DIODE MA152WK			
		< IC >			
IC11	8-752-033-14	IC CXA1081Q			
IC12	8-752-037-48	IC CXA1182Q-Z			
IC13	8-752-352-93	IC CXD2500AQ			
IC14	8-759-518-59	IC BA6296FP			
IC15	8-759-981-69	IC LM2904M			
IC601	8-759-085-35	IC AM27C020-PRT1HV1.3			
		< JUMPER RESISTOR >			
JR1	1-216-295-00	METAL CHIP	0	5%	1/10W
JR2	1-216-295-00	METAL CHIP	0	5%	1/10W

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q11	8-729-804-41	TRANSISTOR 2SB1122-S			
Q12	8-729-424-59	TRANSISTOR UN2212			
Q13	8-729-807-33	TRANSISTOR 2SB1123			
Q14	8-729-424-59	TRANSISTOR UN2212			
Q15	8-729-921-25	TRANSISTOR FMC2			
Q16	8-729-921-25	TRANSISTOR FMC2			
Q17	8-729-820-68	TRANSISTOR 2SD1802FA-S			
Q601	8-729-424-12	TRANSISTOR UN2112			
Q602	8-729-424-12	TRANSISTOR UN2112			
		< RESISTOR >			
R11	1-216-093-00	METAL CHIP	68K	5%	1/10W
R12	1-216-093-00	METAL CHIP	68K	5%	1/10W
R13	1-216-093-00	METAL CHIP	68K	5%	1/10W
R14	1-216-093-00	METAL CHIP	68K	5%	1/10W
R15	1-216-097-00	METAL CHIP	100K	5%	1/10W
R16	1-216-097-00	METAL CHIP	100K	5%	1/10W
R17	1-216-024-00	METAL GLAZE	91	5%	1/10W
R18	1-216-081-00	METAL CHIP	22K	5%	1/10W
R19	1-216-073-00	METAL CHIP	10K	5%	1/10W
R20	1-216-150-00	METAL GLAZE	10	5%	1/8W
R21	1-216-152-00	METAL GLAZE	12	5%	1/8W
R22	1-216-077-00	METAL CHIP	15K	5%	1/10W
R23	1-216-079-00	METAL CHIP	18K	5%	1/10W
R24	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R25	1-216-073-00	METAL CHIP	10K	5%	1/10W
R26	1-216-081-00	METAL CHIP	22K	5%	1/10W
R27	1-216-097-00	METAL CHIP	100K	5%	1/10W
R28	1-216-073-00	METAL CHIP	10K	5%	1/10W
R41	1-216-097-00	METAL CHIP	100K	5%	1/10W
R42	1-216-097-00	METAL CHIP	100K	5%	1/10W
R43	1-216-105-00	METAL CHIP	220K	5%	1/10W
R44	1-216-085-00	METAL CHIP	33K	5%	1/10W
R46	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R47	1-216-095-00	METAL CHIP	82K	5%	1/10W
R48	1-216-081-00	METAL CHIP	22K	5%	1/10W
R49	1-216-114-00	METAL GLAZE	510K	5%	1/10W
R50	1-216-113-00	METAL CHIP	470K	5%	1/10W
R51	1-216-097-00	METAL CHIP	100K	5%	1/10W
R52	1-216-099-00	METAL CHIP	120K	5%	1/10W
R53	1-216-073-00	METAL CHIP	10K	5%	1/10W
R54	1-216-041-00	METAL CHIP	470	5%	1/10W
R55	1-216-075-00	METAL CHIP	12K	5%	1/10W
R56	1-216-075-00	METAL CHIP	12K	5%	1/10W
R57	1-216-073-00	METAL CHIP	10K	5%	1/10W
R58	1-216-049-00	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R59	1-216-073-00	METAL CHIP	10K	5%	1/10W
R60	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R61	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R62	1-216-073-00	METAL CHIP	10K	5%	1/10W
R63	1-216-037-00	METAL CHIP	330	5%	1/10W
R64	1-216-037-00	METAL CHIP	330	5%	1/10W
R65	1-216-037-00	METAL CHIP	330	5%	1/10W
R66	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R67	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R68	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R69	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R70	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R71	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R72	1-216-073-00	METAL CHIP	10K	5%	1/10W
R73	1-216-081-00	METAL CHIP	22K	5%	1/10W
R74	1-216-081-00	METAL CHIP	22K	5%	1/10W
R75	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
R76	1-216-089-00	METAL CHIP	47K	5%	1/10W
R77	1-216-049-00	METAL CHIP	1K	5%	1/10W
R601	1-216-081-00	METAL CHIP	22K	5%	1/10W
R602	1-216-081-00	METAL CHIP	22K	5%	1/10W
R603	1-216-081-00	METAL CHIP	22K	5%	1/10W
R604	1-216-081-00	METAL CHIP	22K	5%	1/10W
R605	1-216-081-00	METAL CHIP	22K	5%	1/10W
R607	1-216-081-00	METAL CHIP	22K	5%	1/10W
R608	1-216-081-00	METAL CHIP	22K	5%	1/10W
R610	1-216-081-00	METAL CHIP	22K	5%	1/10W
R611	1-216-081-00	METAL CHIP	22K	5%	1/10W
		< VARIABLE RESISTOR >			
RV11	1-238-091-11	RES, ADJ, CERMET 22K			
RV12	1-238-091-11	RES, ADJ, CERMET 22K			
RV13	1-238-091-11	RES, ADJ, CERMET 22K			
RV14	1-238-091-11	RES, ADJ, CERMET 22K			
		< VIBRATOR >			
X601	1-577-273-11	OSCILLATOR, CERAMIC 4.19MHz			

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MISCELLANEOUS

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251	8-835-456-01	MOTOR, DC SSC-02E07S
⚠259	8-848-178-11	DEVICE, OPTICAL KSS-310AAM
102	1-646-391-11	CONNECTOR FLEXIBLE BORAD
121	1-642-837-11	ELEVATOR FLEXIBLE BORAD
203	1-643-083-11	MOTOR FLEXIBLE BORAD
252	X-2625-210-1	GEAR ASSY, SLED MOTOR

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SEE ADDITIONAL INFORMATION

Ref. No.	Part No.	Description	Remark
204	1-642-972-11	DRIVER FLEXIBLE BORAD	
206	1-642-931-11	SENSOR FLEXIBLE BORAD	
D11	8-749-924-17	DIODE PHOTO INTERRUPTER SG-220	
M501	X-3362-325-1	MOTOR ASSY	
M502	X-3362-325-1	MOTOR ASSY	
M601	X-3362-325-1	MOTOR ASSY	
PRG401	1-454-580-11	SOLENOID, PLUNGER	
SW501	1-571-300-31	SWITCH, ROTARY	

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ACCESSORIES & PACKING MATERIALS

****

	1-467-104-11	REMOTE COMMANDER	
	1-690-951-11	CORD (WITH CONNECTOR)	
*	3-376-998-01	CUSHION (UPPER)	
*	3-376-999-01	CUSHION (LOWER)	
*	3-389-104-01	INDIVIDUAL CARTON (US, E)	
*	3-389-160-01	INDIVIDUAL CARTON (Canadian)	
*	3-756-826-11	MANUAL, INSTRUCTION (E)	
	3-756-826-21	MANUAL, INSTRUCTION (US, Canadian)	
	X-3363-344-1	MAGAZINE ASSY (2)	

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****

HARDWARE LIST

****

#1	7-621-255-35	SCREW +BVTT 2X5 (S)
#2	7-621-773-95	SCREW +PTT 2.6X6 (S)
#3	7-685-782-01	SCREW +PTT 2X5 (S)
#4	7-682-626-09	SCREW +PSW 4X10
#5	7-621-255-10	SCREW +P 2X3
#6	7-621-770-67	SCREW(+PTT 2.6X8), GROUND POINT
#7	7-627-554-07	SCREW, PRECISION +P 2X2.2
#8	7-621-255-20	SCREW +PTT 2X4 (S)
#9	7-624-104-04	STOP RING 2.0, TYPE -E
#10	7-627-554-37	SCREW, PRECISION +P 2X1.8 TYPE1
#11	7-621-259-25	SCREW +P 2.6X4
#12	7-624-102-04	STOP RING 1.5, TYPE -E
#13	7-627-553-27	SCREW, PRECISION +P 2X2.5
#14	7-621-255-55	SCREW +PTT 2X8 (S)
#15	7-628-253-10	SCREW +PS 2X5
#16	7-627-852-17	SCREW, PRECISION +P 1.7X4
#17	7-627-533-37	SCREW +P 2X3
#18	7-685-102-19	SCREW +P 3X6
#19	7-682-547-09	SCREW +P 3X6
#20	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT

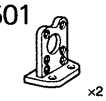
Ref. No.	Part No.	Description	Remark

MOUNTING HARDWARE

****

* 501	3-375-508-01	BRACKET (300)	
502	X-3366-634-1	SCREW ASSY	
* 503	3-365-669-01	TAPE (MALE)	
* 504	3-365-670-01	TAPE (FEMALE)	

501



502

503, 504

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CDX-A35RF

SONY
SERVICE MANUAL

US Model
Canadian Model
E Model

SUPPLEMENT-1

File this supplement with the service manual.

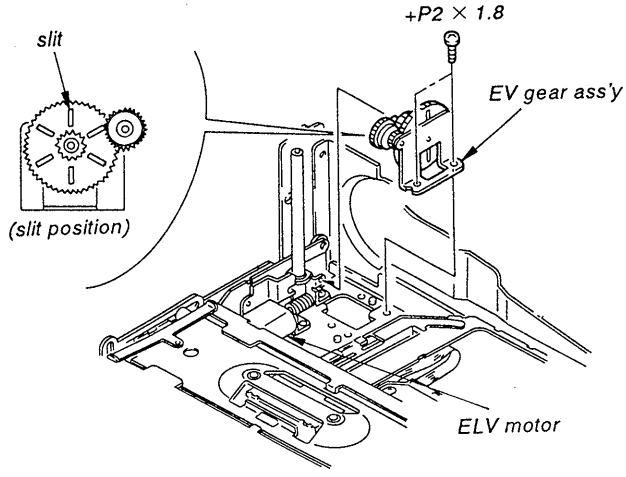
Subject: Mechanical Adjustments

[ELEVATOR HEIGHT ADJUSTMENT]

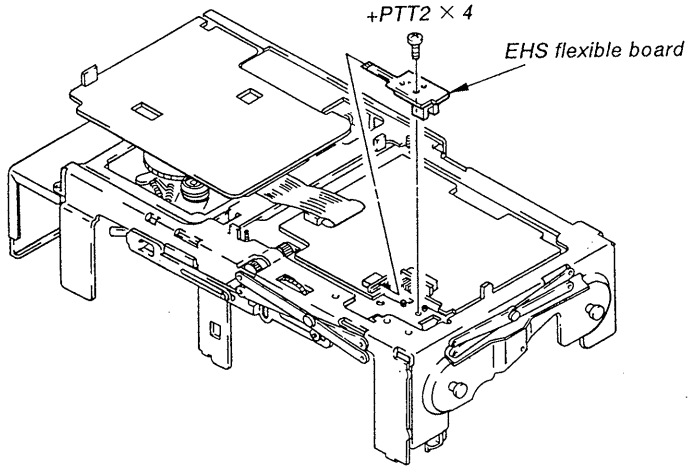
This adjustment should be done when replacing the rack assembly on the parts related to it.

Procedure:

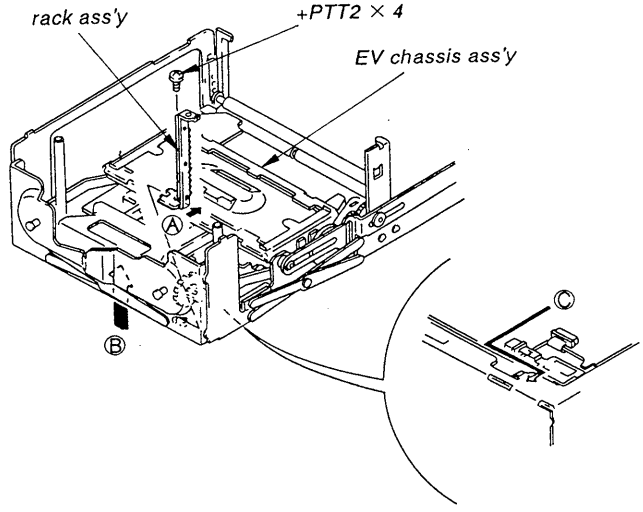
1. Fit the EV gear assembly after adjusting its slit position as shown in the figure. (When the slit position is out of order after fitting, it can be adjusted finely by turning the worm gear of the ELV motor.)



2. EHS Flexible Board Fitting.



3. Fit the rack assembly putting it in the arrow Ⓐ direction. At this time insert a spacer (approx. 1 mm thickness) or fit the rack assembly while pushing the EV chassis assembly in the arrow Ⓑ direction.



Note: When this adjustment is out of order, it doesn't operate normally and the roaring of the motor can be heard. In this case adjust again.

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CDX-A35RF

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SERVICE MANUAL

US Model
Canadian Model
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SUPPLEMENT-2

File this supplement with the service manual.

Subject: Information of RF unit and Remote Commander

The Remote Commander and the RF Unit attached to the CDX-A35RF are supplied respectively as an assembly.

Ref. No.	Part No.	Description
	1-467-104-11	REMOTE COMMANDER (WIRED)
	1-467-105-13	RF UNIT (HIDEAWAY)

9-957-798-82

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